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# Combustion and explosion characteristics of dusts



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Berufsgenossenschaften

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Als Grundlage zum sicheren Handhaben brennbarer Stäube und zum Projektieren von Schutzmaßnahmen gegen Staubexplosionen in stauberzeugenden und -verarbeitenden Anlagen wurden von annähernd 4300 Staubproben aus nahezu allen Bereichen der gewerblichen Wirtschaft wichtige Brenn- und Explosionskenngrößen bestimmt. Die angewandten Untersuchungsverfahren werden beschrieben, und es wird auf weitere Einflußgrößen hingewiesen.

Da die Brenn- und Explosionskenngrößen in erheblichem Umfang sowohl vom jeweiligen Staubzustand als auch von den Bestimmungsverfahren abhängen, wird die Bedeutung der "Grenzen der Anwendbarkeit" besonders hervorgehoben. Die Anwendungsgrenzen müssen vom Benutzer beachtet werden, da es andernfalls zu folgenschweren Fehleinschätzungen beim Beurteilen von Gefahren oder beim Auslegen von Schutzmaßnahmen kommen kann.

Important combustion and explosion characteristics of approximately 4300 dust samples from virtually all sectors of industry were determined as a basis for the safe handling of combustible dusts and for the planning of preventive and protective measures against dust explosions in dust-generating and processing plants. The test methods applied are described. Attention is also drawn to further influencing factors.

As the numerical values of the characteristics depend to a large extent on the determination methods, the importance of the "limits of applicability" is emphasized. The application limits must be noted by the user, otherwise faulty assessments with serious consequences may occur in the evaluation of hazards or in the design of preventive and protective measures.

Près de 4300 échantillons de poussières en provenance de presque tous les secteurs de l'industrie ont fait l'objet d'analyses afin de déterminer des caractéristiques importantes de combustion et d'explosion; en effet, ces caractéristiques doivent servir de base au maniement sûr des poussières inflammables et à l'étude de mesures de prévention et de protection contre les coups de poussière dans les installations générant et transformant des poussières. Les méthodes d'investigation appliquées sont décrites et d'autres facteurs d'influence sont mentionnés.

Etant donné que les caractéristiques de combustion et d'explosion dépendent, dans une très grande mesure, à la fois de l'état de la poussière et de la méthode de détermination, l'importance des "limites de l'application" est tout particulièrement soulignée. L'utilisateur doit impérativement respecter les limites d'application, car il peut sinon se produire de graves erreurs lors de l'appréciation des dangers ou lors de l'établissement de mesures de prévention et de protection.

Tomando unas 4.300 pruebas de polvo de prácticamente todos los sectores de la industria se han determinado sus parámetros característicos de combustión y explosión. Sobre esta base se desarrollaron medidas dirigidas a una manipulación segura de polvos inflamables así como a la protección contra explosiones de polvo en las plantas de generación y procesamiento de polvo. Se describen los métodos de análisis haciendo referencia también a otros factores de influencia.

Dado que los parámetros característicos de combustión y explosión dependen en gran medida tanto de la condición del polvo como también de los métodos de determinación, se hace especial hincapié a la importancia de "los límites de aplicación". Tales límites han de ser observados por el usuario ya que, en caso contrario, pueden producirse evaluaciones erróneas acarreamdo consecuencias graves a la hora de valorar los peligros o de proyectar medidas preventivas adecuadas.



# Contents

	Page
1	Introduction ..... 6
2	Definitions/characteristics ..... 8
3	Preventive and protective measures and characteristics to be noted..... 10
4	Test framework ..... 11
5	Test methods ..... 13
6	Effect of different parameters on the explosion behaviour ..... 22
7	Limits of applicability..... 27
8	References ..... 29
9	Explanatory notes for the tables..... 31
	Tables of combustion and explosion characteristics of dusts..... 33
	Index of materials..... 443

# 1 Introduction

A prerequisite for the safe handling of solid materials with a fine particle size (e.g. powder, flour, dust) is that the properties which affect safety are known. In addition to health aspects, these include flammability and explosibility. The more comprehensive our knowledge of the combustion and explosion behaviour, the more effectively the necessary preventive and protective measures can be taken.

In collaboration with the Bergbau Versuchsstrecke - BVS (Mining Test Facility) and with the financial support of the *Hauptverband des gewerblichen Berufsgenossenschaften* (Federation of the Statutory Accident Insurance Institutions of the Industrial Sector), a research project to determine the combustion and explosion characteristics of representative dusts was designed and carried out at the end of the 70s. The results were published in 1980 in a research report entitled "Dust explosions, combustion and explosion characteristics of dusts" [1].

Combustion and explosion characteristics were determined for over 800 dusts and dust-type products. Although not all the safety characteristics of a substance were recorded, the data in the tables constituted a useful basis for practical work safety, and was welcomed especially by safety experts and supervisory authorities.

The loose-leaf compilation of the BIA Handbook took into account the frequently expressed desire for the publication of further characteristics. Apart from data from the Mining Industry Testing Station - BVS and the *Berufsgenossenschaftliches Institut für Arbeitssicherheit* - BIA - (Professional Association's Occupational Safety Institute), data from the *Berufsgenossenschaft Nahrungsmittel und Gaststätten* (Statutory Accident Insurance Institution for Food Industry and Catering) - BGN - was also included so that the second edition of the tables contained explosion characteristics of almost 1900 dusts. Two additional tables containing data on minimum ignition energies and limiting oxygen concentrations were new [2].

Within the framework of a project sponsored by the Commission of the European Community, further data records with characteristics determined by various testing stations were included on a large scale in the table. The table now contains data records from approximately 4300 dust samples.

The scale of the table thus achieved goes beyond the scope of the BIA Handbook so that it will be published in future as a BIA-Report. The results of the research project in English and German is therefore already being published in BIA report format.

This research report will be available above all to experts responsible for assessing the explosive potential of dusts and evaluating the risks associated with handling combustible dusts.

The testing stations involved in the EU project with data records are:

- Berufsgenossenschaftliches Institut für Arbeitssicherheit - BIA (Professional Association's Occupational Safety Institute), Sankt Augustin, Germany
- Berufsgenossenschaft Nahrungsmittel und Gaststätten - BGN (Statutory Accident Insurance Institution for Food Industry and Catering)/Forschungsgesellschaft für angewandte Systemsicherheit und Arbeitsmedizin e.V. - FSA, Mannheim, Germany
- CHEMSAFE - Database for assessed characteristics in safety technology,

German Society for Chemical Apparatus, Chemical Engineering and Biotechnology e.V. - DECHEMA, Frankfurt/Main, Germany; Federal Institute for Materials Research and Testing - BAM, Berlin, Germany/Federal Institute of Physics and Metrology - PTB, Brunswick, Germany

- DMT-Gesellschaft für Forschung und Prüfung mbH, expert body for surface fire and explosion protection - mining test facility, Dortmund, Germany
- Henkel KGaA, TTA-Safety Technology, Düsseldorf, Germany

The test methods upon which the characteristics listed in the tables are based are described in various national and international standards [3 to 6]. The most important basis for this table is the VDI 2263-1 [3]. As far as possible, the terms correspond to the definitions of the EN 1127-1 [7].

## 2 Definitions/characteristics

### Cubic law

Volume-dependence of the maximum rate of explosion pressure rise

$$(dp/dt)_{max} \cdot V^{1/3} = \text{const} = K_{St}$$

### Dust

Finely divided solid substance of any shape, structure and density below a particle size of about 500  $\mu\text{m}$ .

### Dust/air mixture

Dust whirled up in air (dust cloud). The dust concentration is the characteristic quantity.

### Dust explosion classes

Categories, into which dusts are classified on the basis of their  $K_{St}$  values.

Dust explosion class	$K_{St}$ in $\text{bar} \cdot \text{m} \cdot \text{s}^{-1}$
St 1	>0 to 200
St 2	>200 to 300
St 3	>300

### Explosion

Abrupt oxidation reaction producing an increase in temperature, pressure, or in both simultaneously.

### $K_{St}$ value

Parameter specific to dust and test method, which is calculated according to the cubic law. It is numerically equal to the value for the maximum rate of explosion pressure rise in the 1  $\text{m}^3$  vessel under the test conditions specified in VDI Guidelines 3673, Part 1 and 2263, Part 1 as well ISO 6184/1.

### Limiting oxygen concentration *LOC*

The maximum oxygen concentration in a dust/air/inert gas mixture, at which an explosion does not occur, under specified test conditions.

### Lower explosion limit *LEL*

Lower limit of the range of the concentration of dust in air, at which the dust/air mixture can be caused to explode.

**Maximum explosion (over)pressure  $p_{max}$**

The maximum pressure value occurring during the explosion of a dust/air mixture of optimum concentration in a closed vessel under specified test conditions.

**Maximum rate of explosion pressure rise  $(dp/dt)_{max}$**

Maximum value of the pressure rise per unit time in a closed vessel occurring during the explosion of a dust/air mixture of optimum concentration under specified test conditions (see also "Cubic law").

**Median value  $MV$**

Value for the mean particle size (50 % in weight of the dust is coarser and 50 % in weight is finer than the median value).

**Minimum ignition energy  $MIE$  or  $E_{min}$**

Lowest electrical energy stored in a capacitor, which upon discharge is sufficient to ignite the most ignitable mixture of dust and air, under specified test conditions.

**Minimum ignition temperature of a dust cloud (ignition temperature)  $IT$**

Lowest temperature of a hot surface at which the most flammable mixture of dust and air ignites under specified test conditions.

**Minimum ignition temperature of a dust layer of 5 mm thickness (glowing temperature)  $GT$**

Lowest temperature of a hot surface on which ignition occurs in a 5 mm thick layer of dust under specified test conditions.

### 3 Preventive and protective measures and characteristics to be noted

According to the explosion prevention and protection guidelines (EX-RL), VDI 2263 [8,3] and the new European regulations [7,9,10] a distinction is made between two types of measures:

- preventive explosion measures (avoidance of explosions)
- protective explosion measures (avoidance of the dangerous impact of explosions by constructional protective measures).

The aim of the preventive explosion protection measures is to prevent the occurrence of explosions by eliminating or avoiding the conditions for explosions. If this aim cannot

be fulfilled or can only be fulfilled with considerable effort, comparable safety can be achieved by limiting the effects of an unavoidable explosion to an acceptable extent.

Knowledge of the combustion and explosion characteristics of the dusts to be handled is required for appropriate selection and dimensioning of preventive and protective measures (see Table 1).

Advice on the implementation of preventive and protective measures is included in the guidelines and publications listed in the references. Of particular interest here are VDI 2263 [3] and EN 1127-1 [7].

Preventive/Protective measure	Pertinent characteristics
Prevention of combustible dusts Limiting concentration Inerting Prevention of ignition sources	Combustibility, explosibility Explosion limits Limiting oxygen concentration Minimum ignition energy, ignition temperature, glowing temperature, auto-ignition behaviour, exothermic decomposition, electrostatic behaviour, impact sensitivity, smouldering point
Explosion-resistant design Explosion relief Explosion suppression	Maximum explosion overpressure $K_{St}$ -value, maximum explosion overpressure $K_{St}$ -value, maximum explosion overpressure

Table 1: Correlation of preventive/protective measures with safety characteristics

## 4 Test framework

A comprehensive knowledge of the combustion and explosion behaviour of the substances concerned is necessary to be able to evaluate the safety of plants and processes. Firstly, the chemical composition of the substances must be known. If oxidisability of a substance can be precluded, tests can be dispensed with. It can then be designated non-flammable and non-explosive.

If oxidisability is likely or cannot be precluded, the characteristics must be determined by means of experiments. It is not yet possible to calculate these characteristics from basic data, on combustion heat, for example. Fig. 1 shows a tried and tested framework for testing combustion and explosion behaviour [3,7,8,11,12,14,18,24].

The characteristics should initially be determined for fine dusts to find out the most critical conditions to be expected in practice. This is especially important if the degree of fineness changes or the number of fine particles increases during a process (e.g. by grinding, abrasion, exhaustion or sedimentation). The tests on deposited dust are generally conducted with the fraction  $<250\ \mu\text{m}$  and those on whirled-up dust with the fraction  $<63\ \mu\text{m}$ . It might be necessary to prepare the test sample by suitable treatment.

To solve certain problems, however, it might also be useful to test the dust without special treatment, in other words in its "operational condition".

## 4 Test framework

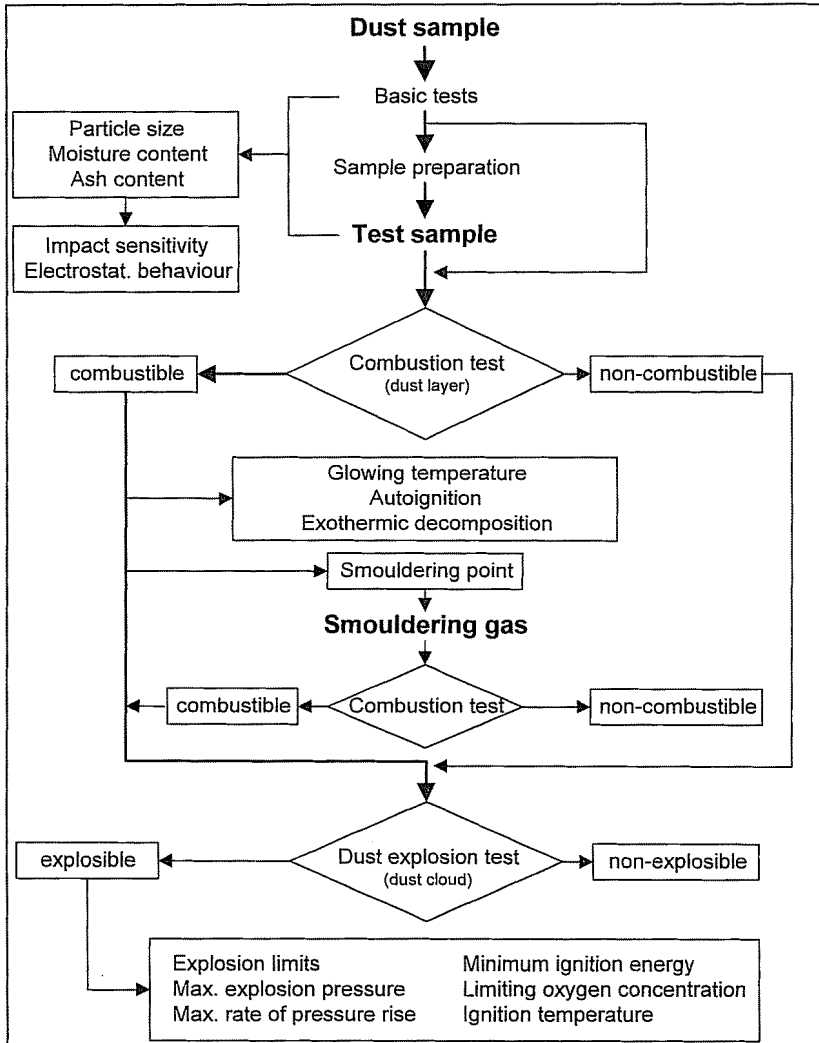


Fig. 1: Flow diagram for investigation of the combustion and explosion behaviour of dusts



## 5 Test methods

The characteristics listed in the tables have been determined according to the methods briefly described below.

### Particle size distribution, median value

The particle size distribution of a dust is always determined by a screen analysis. To this effect, the dust to be tested is sieved onto standard test screens and the screen residue is weighed. If the residue in weight per cent is plotted over the particle diameter in the RRSB grid, a distribution curve occurs, indicating the median value of the tested dust. The median value can be used to roughly characterise the fineness of the dust sample. If a screen analysis cannot be carried out, wet or sifting methods are used to determine particle size distribution.

### Moisture content

The moisture content of the substance to be tested is measured as the difference between the weight of wet dust and the weight of dried dust. This is determined by carefully drying the dust until a constant weight is achieved.

### Lower explosion limit

The lower explosion limit is determined by the explosion tests described below to determine  $p_{max}$  and  $K_{St}$ . It can also be esti-

ated approximately on the basis of the tests in the modified Hartmann tube.

### Maximum explosion pressure, maximum rate of explosion pressure rise, $K_{St}$ , value

Reliable values for these explosion characteristics of dusts are obtained if a sphere-shaped vessel with a volume  $\geq 20$  l is used. The values in the tables are based on tests in the 1 m<sup>3</sup> vessel and/or 20 l sphere.

In the 1 m<sup>3</sup> vessel (Fig. 2), the dust to be tested is poured into a 5 l dust container, located outside the explosion vessel. The dust is usually blown into the explosion vessel via a semicircular perforated 3/4" pipe running along the inside wall of the vessel. The diameter of the 20 or 13 holes in the pipe wall is 5 mm or 6 mm respectively. Compressed air under an overpressure of 20 bar in the dust container ensures sufficiently quick discharge of the dust and a right turbulence inside the explosion vessel after a blasting cap or electro-pneumatically activated valve is opened, so that an adequately homogeneous dust/air mixture with a defined concentration is present in the explosion vessel at the ignition time. The ignition delay time, i.e. the time between the start of dust injection and triggering of the ignition source, is an arbitrary quantity for the degree of turbulence at the moment of ignition.

5 Test methods

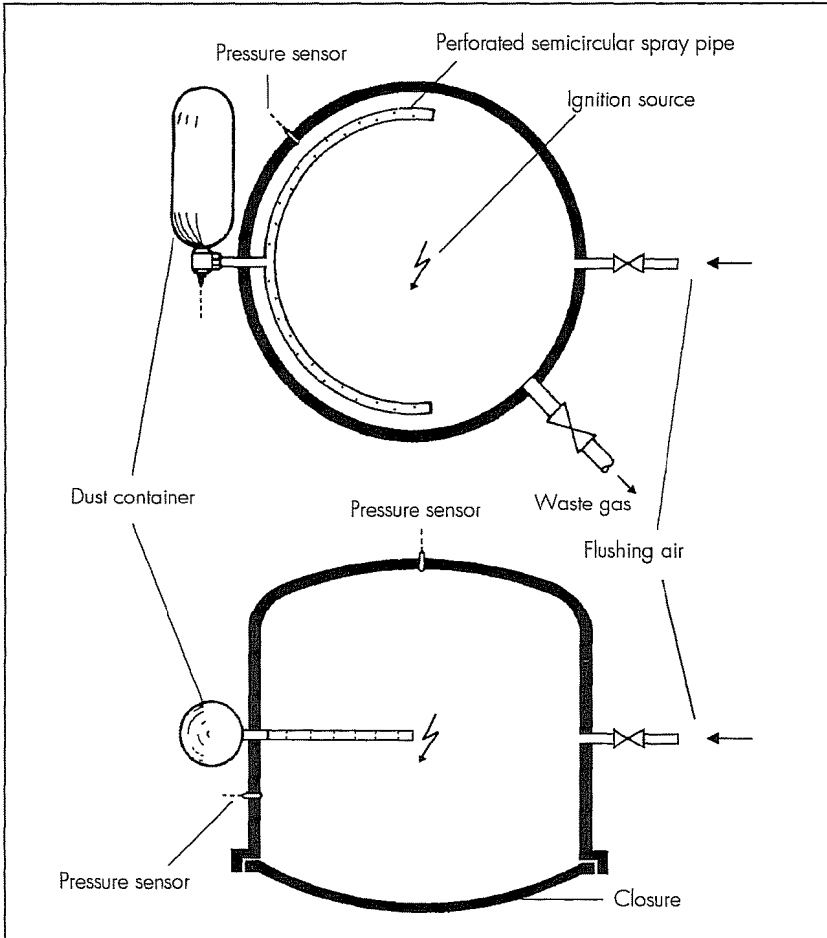


Fig. 2: Test apparatus for the determination of the explosion behaviour of dusts (1 m<sup>3</sup> vessel; schematic)

Turbulence is necessary, on the one hand, to keep the dust in suspension, on the other, it affects the course of the explosion. With diminishing ignition delay time the turbulence increases and the values for the maximum rate of explosion pressure rise and the maximum explosion pressure increase. The latter approaches a maximum value,

which is achieved when the dust to be tested has just been fully discharged from the dust container. The associated ignition delay time is 0.6 s (Fig. 3). Shortening of the ignition delay time to values below 0.6 s results in an increase in the rate of explosion pressure rise. All tests are based on an ignition delay time of 0.6 s.

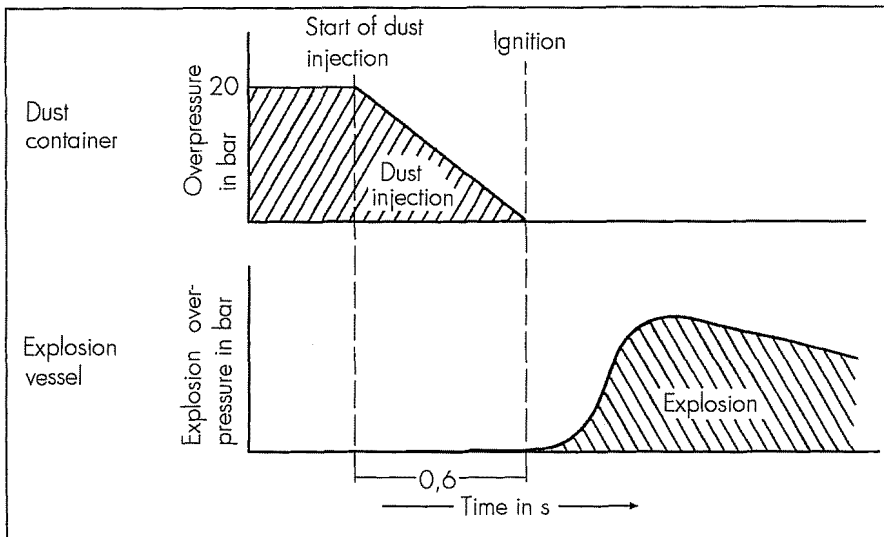


Fig. 3: Course of the explosion at the tests of dusts in the 1 m<sup>3</sup> container (schematic)

The dust/air mixture is ignited in the centre of the explosion vessel. Two chemical igniters with a total energy of 10 000 J are always used as ignition source. The course of the explosion is

recorded time resolved via pressure sensors inserted in the vessel wall.

## 5 Test methods

In the course of a series of tests, the dust concentrations are varied, and the explosion pressure and the rate of explosion pressure rise of the reaction is determined. Starting with a dust concentration of  $500 \text{ g m}^{-3}$  in each case, the concentration is increased gradually by  $250 \text{ g m}^{-3}$  and, if necessary, reduced by halving the concentration until the maximum values for the pressure and the rate of pressure rise are clearly ascertained. The concentration, at which ignition of the dust/air mixture no longer occurs is determined by further reduction of the dust concentration according to the same method.

By reducing the dust concentration stepwise in the same way, the concentration is determined at which no ignition of the dust/air mixture occurs at least three times. If this result is the same when using an ignition delay time of 0.3 s this dust concentration will be called the lower explosion limit of the tested dust.

In the case of the 20 l sphere, the test method and the construction of the equipment are basically the same as for the  $1 \text{ m}^3$  vessel. They are specified in such a way that values comparable to those in the  $1 \text{ m}^3$  vessel are obtained within the measuring accuracy limits.

Apart from vessel size, the most important differences are that partial evacuation must be undertaken before the actual test (to achieve atmospheric pressure in the explosion vessel after the dust is blown in), and that the ignition delay time is only 0.06 s. A further difference is that the investigations over the wide concentration range are conducted in three series and the maximum explosion pressure and maximum rate of explosion pressure rise are calculated by forming the mean value of the maximum values of each series.

With the aid of the "cubic law"

$$(dp/dt)_{max} \cdot V^{1/3} = \text{constant} = K_{St}$$

the maximum rate of explosion pressure rise is converted to the  $K_{St}$  value which is independent of the volume. As it is the case in the  $1 \text{ m}^3$  vessel, two chemical igniters with a total energy of 10 000 J are used as ignition source [3,4,5,16].

### Dust explosibility/dust explosion class

Dust explosibility exists if a flame spreads after ignition in a dust/air mixture, causing a pressure increase in a closed vessel. Explosibility is preferably determined in

closed apparatuses according to the described methods. While the same ignition source is used in the 1 m<sup>3</sup> vessel as in the test to determine the characteristics  $p_{max}$  and  $K_{St}$  ( $E = 10$  kJ), the ignition energy to determine dust explosibility in the 20 l sphere is only 1 kJ to 2 kJ [3].

If the described method produces no pressure build-up ( $\Delta p < 0.5$  bar above the initial process-related pressure), the dust in the tested form (composition, particle size, moisture content) is regarded as **non-dust explosible**. If a pressure value of  $\geq 0.5$  bar above the initial process-related pressure occurs, the dust is regarded as in mixture with air explosible (**dust explosible**).

The **modified Hartmann tube** can also indicate to a certain extent explosibility and dust explosion class. The modified Hartmann tube (Fig. 4) consists of a vertically arranged glass tube with a volume of about 1.2 l, which is closed at the top by a hinged lid. The dust to be tested is placed on the bottom of the apparatus and distributed by a defined air blast guided via a mushroom-shaped atomiser from a preceding compressed-air reservoir ( $V = 50$  ml,  $p = 8$  bar).

The dust quantity introduced is varied over a wide range in each of three test series.

A continuous spark gap serves as ignition source. In the event of non-ignition, the test is repeated with a stronger ignition source in the form of a glowing coil [17].

Depending on the reaction of the dust/air mixture, the lid is opened to a varying extent and the opening angle displayed digitally in three stages via inductive transmitters. The maximum reactions are evaluated according to the following method:

- Indication "0" (without visually perceptible independent flame propagation) merely means that no ignition occurs under these test conditions. However, classification of the dust particle as non-dust explosible is not justified. More extensive tests in closed vessels are necessary.
- "1" indicates that the dust in the mixture with air is explosible and should be classified in the **dust explosion class St 1**. Visually perceptible independent flame propagation, even without deflection of the hinged lid, is equal to "1".
- "2" also indicates that dust explosibility is present, but does not permit classification in a dust explosion class. More extensive tests in closed equipment are required.

## 5 Test methods

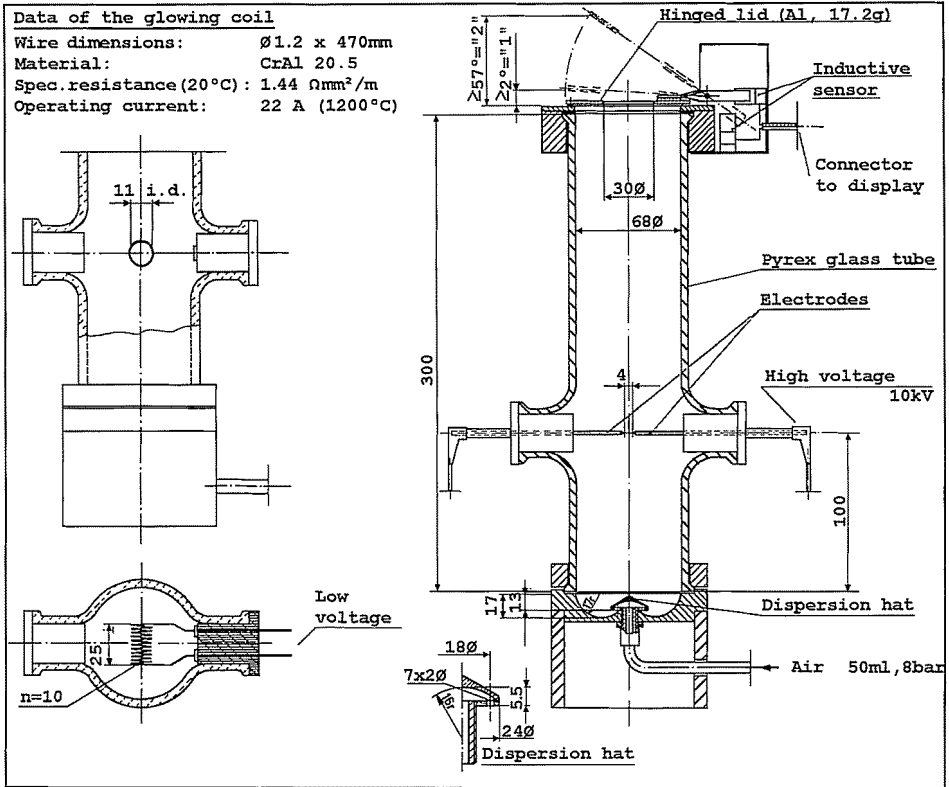


Fig. 4: Modified Hartmann tube (schematic; left: application with glowing coil, right: application with induction spark)

### Limiting oxygen concentration

For the determination of the limiting oxygen concentration the same apparatus and procedures are used as for the dust explosibility. Starting with the optimum dust concentration

in air the oxygen concentration will be reduced by steps of 1 % V/V admixing inert gas until the mixture can not be ignited. The decrease of the optimum dust concentration when decreasing the oxygen concentration has to be taken into account.

The quoted values of the limiting oxygen concentration are based on nitrogen as inert gas. Generally, the values will be higher for other inert gases [3].

### **Minimum ignition energy**

The lowest value of capacitively stored electric energy, which is just adequate to ignite the most flammable mixture of dust and air at atmospheric pressure and room temperature during the discharge prolonged by an inductance in the discharge circuit via a spark gap, is referred to as the minimum ignition energy of a combustible dust in mixture with air.

The minimum ignition energy can be determined as well in the modified Hartmann tube as in the 20 l sphere or in the 1 m<sup>3</sup>

vessel with use of a suitable capacitor discharge device [15, 19].

The results are usually indicated as a pair of varieties in the logarithmic graduation. The lower value refers to the energy which caused no reaction according to the specified process. The higher value refers to the lowest used energy which led to ignition.

### **Minimum ignition temperature of a dust-cloud (ignition temperature)**

To determine the ignition temperature according to **Godbert-Greenwald** [Fig. 5] a small quantity of dust (0.1 g to 3.5 g) is blown down into an electrically heated, vertically arranged tube 36 mm in diameter and 400 mm long by means of a variable air blast ( $V = 50 \text{ cm}^3$  to  $300 \text{ cm}^3$ ,  $p = 1.1 \text{ bar}$  to  $1.6 \text{ bar}$ ).

## 5 Test methods

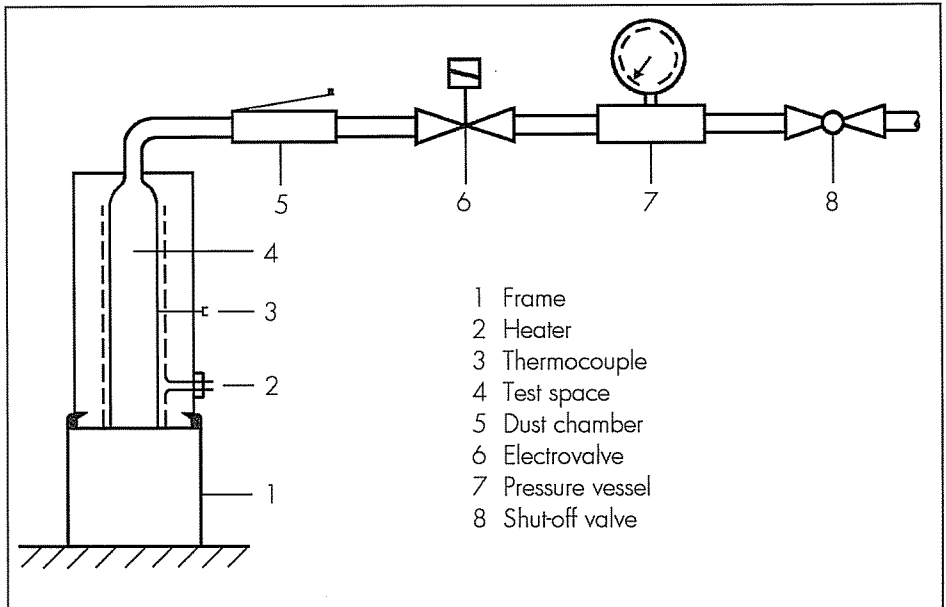


Fig. 5: Godbert-Greenwald equipment (schematic)

In the so-called **BAM-oven**, the dust to be tested is blown against a vertical impact surface, the hottest point inside the horizontal oven. The concentration of the dust/air mixture is varied within certain limits through the input of different quantities of dust and the lowest temperature, at which ignition occurs, is determined.

The aim of these tests is therefore to determine the ignition behaviour of a dust cloud in transient contact with a hot surface in a closed temperature field. The lowest tem-

perature at which the dust/air mixture tested in the described equipment burns with a closed flame, is referred to as the ignition temperature.

In the case of sedimentation of the dust caused by the horizontal arrangement of the BAM-oven, smouldering gases may arise, so that the values determined in this equipment may be lower than those determined with the Godbert-Greenwald equipment [3, 13, 18, 20].



**Minimum ignition temperature of a dust-layer of 5 mm thickness (glowing temperature)**

The glowing temperature is determined on an electrically heated plate 185 mm in diameter, the temperature of which is controlled with an accuracy of  $\pm 2$  °C by thermostats. The sample is spread in a circular shape (100 mm diameter) in a 5 mm thick layer in the centre of the preheated plate and the reaction behaviour observed - sometimes with the aid of a sensitive thermocouple. Signs of glowing phenomena are made clearer, if necessary, by careful fanning. The lowest plate temperature, at which parts of the sample glow within two hours after application, is referred to as glowing temperature [3,6,13,18].

**Combustion test**

These test checks whether and to what extent a fire started by external ignition can spread in deposited dust. An attempt is made to ignite the dust sample heaped to form a strip of product about 2 cm wide and 4 cm long at one end with a glowing platinum wire with a temperature of about 1000 °C. The wire is immersed only briefly in the dust sample, so that the latter is not heated. A 5 mm to 20 mm thick ceramic plate is used as a base. In the case of melting substances, a modified combustion test is also carried out on a sample to which 20 % in weight kieselgur has been added. The result frequently indicates obvious combustion behaviour. The flammability is evaluated by the class numbers BZ 1 to BZ 6 according to the following classification:

Does not catch fire	BZ 1
Catches fire briefly and extinguishes rapidly	BZ 2
Local burning or glowing without spread	BZ 3
Spread of a glowing fire	BZ 4
Spread of an open fire	BZ 5
Very rapid combustion	BZ 6

## 6 Effect of different parameters on the explosion behaviour

As already mentioned, various parameters may affect the explosion behaviour of dusts. These include, in particular, the fineness and water content of the solid material, the presence of solvent vapours, combustible or smouldering gases and the oxygen content in the mixture.

### Fineness

The explosion behaviour of dusts depends to a large extent on the particle size distribution. Hence, the latter must be specified at the same time as values for the explosion characteristics. Often only the median value is mentioned as a guide. The dependence of the maximum explosion overpressure and maximum rate of explosion pressure rise on the median values is plotted for different dusts in Fig. 6.

It is evident that with diminishing particle size the tendency of the dusts to explode increases. Finer dusts ignite more easily and react more violently than coarser ones. The increase in the proportion of coarse particles in the dust sample, e.g. by admixing granulate not explosible by itself to explosible fine dust, leads only to a dampening of the explosion and thus to reduced values of the characteristics  $p_{max}$  and  $K_{St}$ , or to higher values, for example, for the minimum ignition energy or the limiting oxygen concentration. As long as the fine dust proportion in

the mixture with air is above the lower explosion limit, in general a dust explosion is possible. In this connection it should be noted that abrasion of coarse dust, caused by a variety of reasons in practice, may produce fine dust.

### Water content

Basically, the values for the explosion characteristics diminish as water content increases. This effect plays hardly any role up to a water content of about 10 % in weight. Only the raisability of the materials can be reduced. Clear reduction of the explosion characteristics  $p_{max}$  and  $K_{St}$  occurs only above 20 % in weight to 30 % in weight water content (Fig. 7).

### Combustible gases and vapours

The explosion behaviour of dusts may be affected and increased by the addition of combustible gases, smouldering gases or solvent vapours. Such combinations of combustibles are referred to as **hybrid mixtures**. In the case of hybrid mixtures, the maximum rate of explosion pressure rise in particular becomes higher (Fig. 8) and the minimum ignition energy lower than in pure dust/air mixtures. Hybrid mixtures may even be explosible if the concentrations of the gases, vapours or dusts are individually below their lower explosion limit.

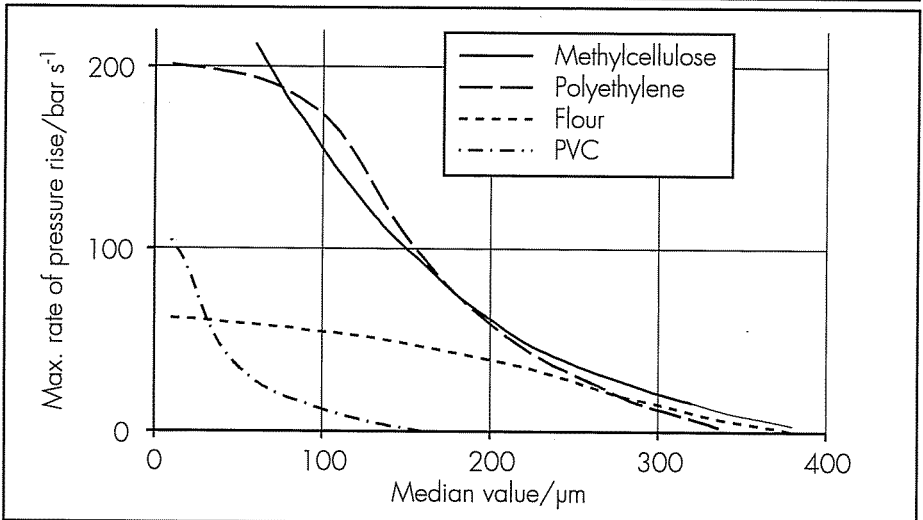
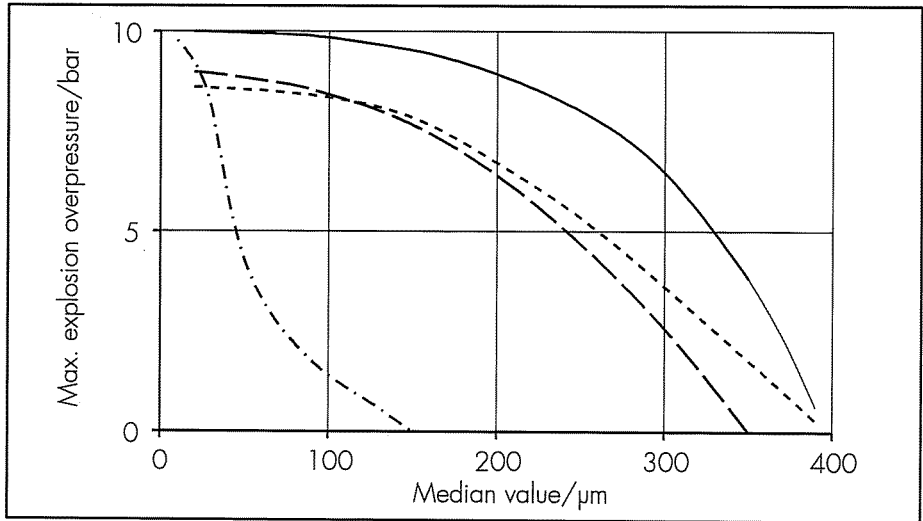


Fig. 6: Effect of the median value on the explosion behaviour ( $V=1\text{ m}^3$ ,  $E=10\ 000\ \text{J}$ )

6 Effect of different parameters on the explosion behaviour

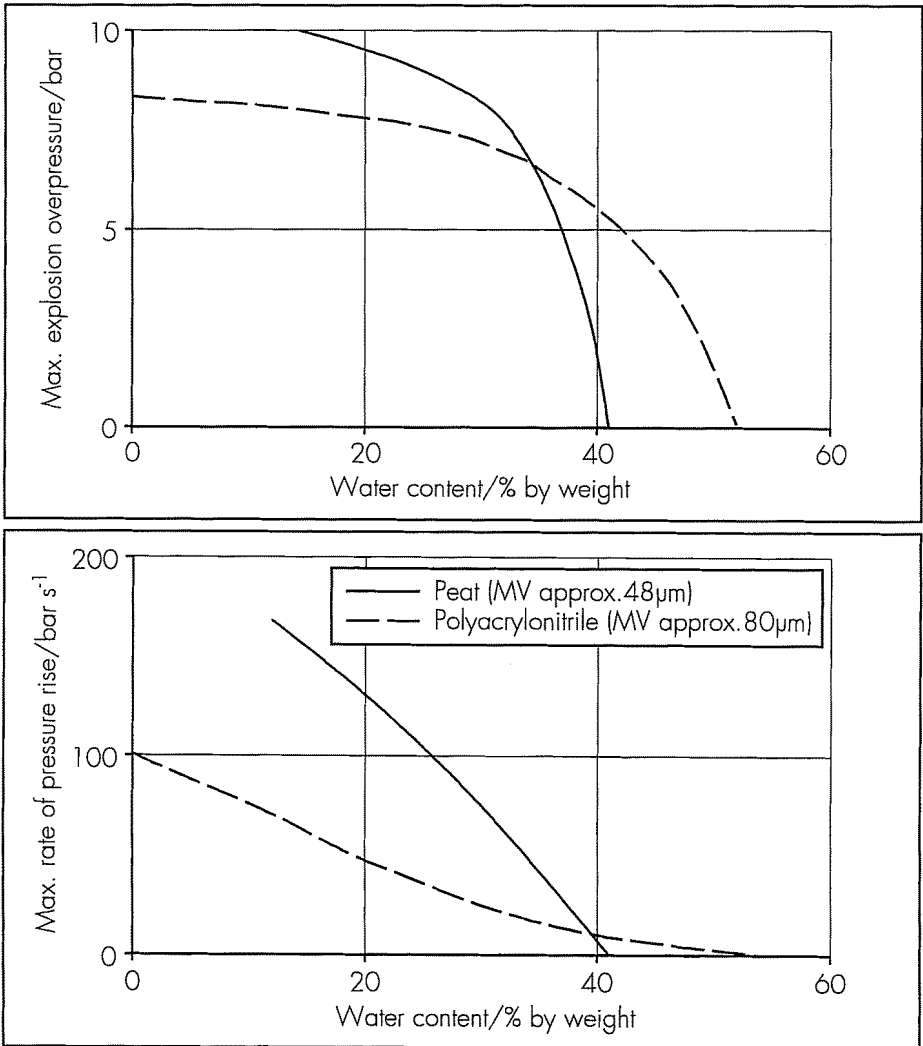


Fig. 7: Effect of the water content on the explosion behaviour ( $V=1\text{ m}^3$ ,  $E=10\ 000\ \text{J}$ )

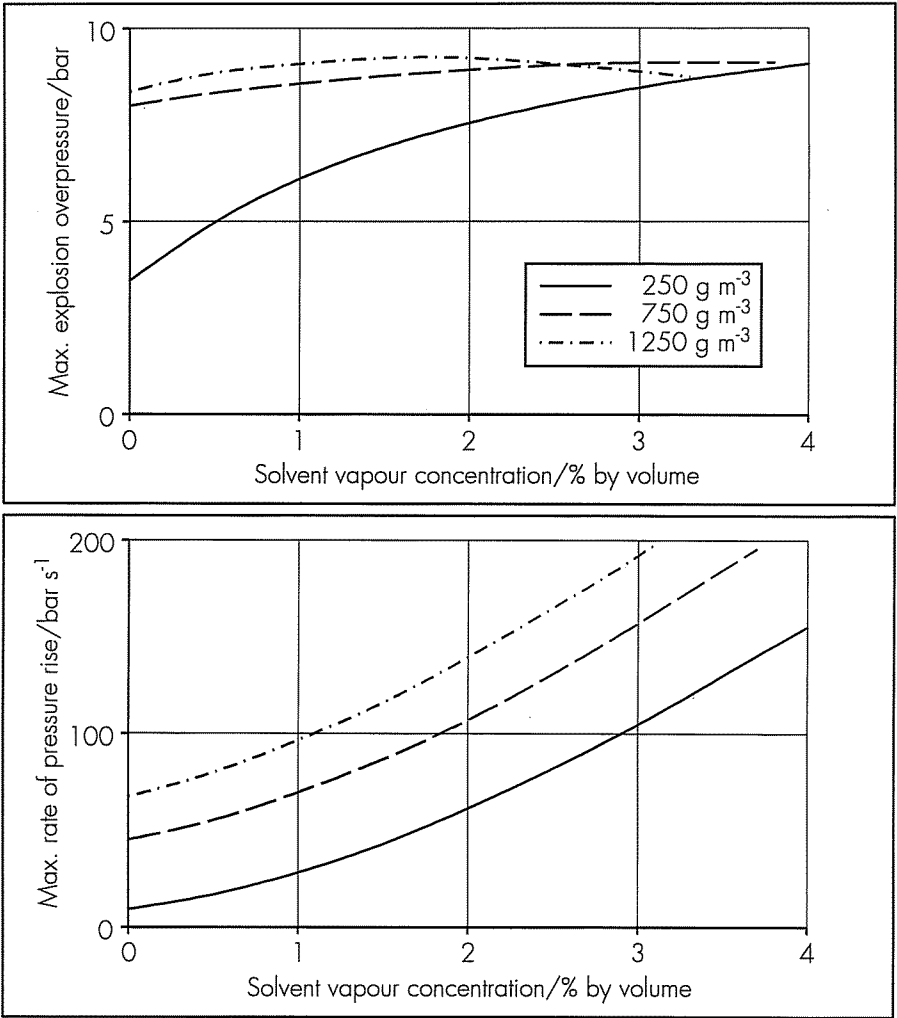


Fig. 8: Effect of the solvent vapour concentration on the explosion behaviour of a pharmaceutical substance with different concentrations ( $V=1\text{ m}^3$ ,  $E=10\ 000\text{ J}$ )

## 6 Effect of different parameters on the explosion behaviour

### Oxygen concentration

Reduction of the oxygen content of a combustion atmosphere, e.g. through the addition of inert gas, reduces the force of an explosion. If the limiting oxygen concentration is not achieved, it is no longer possible to initiate an explosion [21 to 25].

### Content of non-combustible solids

The admixing of non-combustible (inert) solids to a dust/air mixture reduces the explosion severity and is a type of inerting. The proportions of inert substances in the entire mixture of fuel and inert substance, in which it is no longer possible to initiate ignition by customary test methods, are specified in Table 2 on the basis of some examples.

Fuel	Median value	Inert solid material	Median value	Proportion in the total weight
	µm		µm	% by weight
Methyl cellulose	70	Calcium sulphate (CaSO <sub>4</sub> )	<15	70
Organic pigment	<10	Ammonium dihydrogen phosphate (NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> )	29	65
Bituminous coal	20	Calcium carbonate (CaCO <sub>3</sub> )	14	65
Bituminous coal	20	Sodium hydrogen carbonate (NaHCO <sub>3</sub> )	35	65
sugar	30	Sodium hydrogen carbonate (NaHCO <sub>3</sub> )	35	50

Table 2: Inerting of combustible dusts by admixing inert solid materials ( $V=1\text{ m}^3$ ,  $E=10\ 000\text{ J}$ )

## 7 Limits of applicability

There are **limits of applicability** of the combustion and explosion characteristics specified in these tables. They are based on the wide variation possibilities in the nature of the dusts (e.g. composition, particle size distribution, surface structure, moisture content), on the one hand, and on the dependence of the numerical value of the characteristics on the test methods, on the other. Hence, the user must always be aware that the tabulated values can only serve as a guideline for the design of preventive and protective measures.

Above all, the tables should indicate which substances have already been tested, whether the substances are dust-explosible and on what scale the most important data can be expected. They frequently illustrate the problem involved with combustible dusts, i.e. that very different values can occur for what appear to be the same dusts. This highlights the need to test the dust to be handled whenever it is unclear if certain important influencing factors, such as composition, fineness and moisture content, coincide completely with the existing conditions in the case to be assessed.

This applies also concerning the fact that despite careful compilation mistakes can not be excluded at this large extent of data.

In some cases where numerous data are available, however, it might be legitimate to "play safe" in that the assessment is based on the most critical values.

The characteristics listed in the tables are comparable both with each other and also with other characteristics determined by the same methods. They are not comparable, however, with values determined by other methods.

It should be noted that higher values for the maximum explosion pressure and the maximum rate of explosion pressure rise or the  $K_{St}$  value as well as lower values for the lower explosion limit, for the ignition temperature and for the minimum ignition energy may occur with diminishing particle size and moisture; hence the numerical values of the explosion characteristics vary towards the "more hazardous" side (cf. Section 6, Effect of different parameters on explosion behaviour).

The characteristics in the tables apply to the following conditions in the operating plants:

Pressure	from 0.9 bar to 1.1 bar
Oxygen	approx. 21 % V/V
Temperature	from 0 °C to 30 °C

## 7 Limits of applicability

If conditions other than these so-called "atmospheric conditions" exist in practice, special considerations should be made and, if necessary, the characteristics determined under the boundary conditions existing in the factory. Increased pressure, oxygen content and temperature also point to a

more critical combustion and explosion behaviour.

The tabulated values do not apply if the simultaneous presence of combustible dust and gases, vapours or mists (hybrid mixtures) can be anticipated (cf. Section 6, combustible gases and vapours).



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## 9 Explanatory notes for the tables

### Material

The individual materials are arranged alphabetically within the product groups.

### Material number

The material number facilitates identification of a tested dust.

### Particle size distribution/median value/moisture content

The fineness and moisture content refer to the state of the dust sample as delivered respectively as tested. The "delivered" state may be identical to the tested state. The listed combustion and explosion characteristics always apply only to the dust with the conditions described in the same line. If no data is provided on moisture content of the delivered state, it must be assumed that the substance has reached moisture saturation. Prepared testing samples, on the other hand, consist of dried dust with a residual moisture usually of  $\leq 2$  % in weight respectively  $\leq 4$  % in some cases.

### Lower explosion limit

Insofar as no values are available from the  $1 \text{ m}^3$  vessel or from the 20 l sphere (identifiable in that no data on  $p_{max}$  and  $K_{St}$  are included), the cited value indicates for in-

formation purposes the appropriate concentration from tests with the modified Hartmann tube. In some cases the values are calculated.

### Maximum explosion overpressure/ $K_{St}$ value

For the design of the property of vessels or equipment, overpressure is usually used in practice. This is why the maximum explosion overpressure  $p_{max}$  is indicated in tables. The information "No ignition (n.i.)" indicates that the respective dust in the tested state is not explosible. It is not permissible to generalise this statement especially to finer or drier dust.

### Dust explosibility

The information "yes" to dust explosibility refers to tests which could not be carried out in the whole scale of determining the characteristics. But they showed clearly that the tested material is dust explosible. The information "no" (non-dust explosible) is only given if the results of tests with fine dusts in a closed apparatus produced "no ignition" and the result of the combustion test is "BZ 1". Data on the dust explosion classes is usually derived from the respective  $K_{St}$  value. Insofar as only results of explosion tests in the modified Hartmann tube are available, classification only in the dust explosion class

## 9 Explanatory notes for the tables

St 1 is regarded as certain and is shown without reservation. Other results from the modified Hartmann tube, on the other hand, appear in brackets, e.g. (St 2), and, apart from indicating the presence of a dust-explosive substance, only act as a rough guideline.

### Limiting oxygen concentration

Usually single values are given. They represent the highest oxygen concentration at which - under described test conditions with step width of 1 % V/V - no ignition occurs. If an interval is given, the additional upper value represents the lowest used oxygen concentration with ignition of the mixture.

### Minimum ignition energy

Usually a pair of varieties in the logarithmic graduation is given. The lower value refers to the energy which caused no reaction according to the specified test conditions. The higher value refers to the lowest used energy which led to ignition. If only an individual value is indicated, the addition "<" means that the dust might ignite if the indicated energy is sparked. If ignition was not possible with the indicated energy, ">" appears. Values for the minimum ignition energy determined with no inductivity in the discharge circuit are given with the remark "n.ind."

Minimum ignition energy values  $\geq 10^5$  mJ come from tests in closed test apparatus according to the procedure described for the determination of  $p_{max}$  and  $K_{St}$ , but using **chemical igniters** producing the ignition energy.

### Ignition temperature

The values specified in brackets for the Godbert-Greenwald apparatus (G-G) refer to an older test equipment with a slightly longer tube. They are lower than the values determined with the 400 mm tube. The abbreviation "n.i.u. ..." means: no ignition up to ... °C.

### Glowing temperature

The glowing temperature applies by definition to a 5 mm thick layer. With thicker layers the ignition partly may occur at substantially lower temperatures. The abbreviation "n.g.u. ..." means: no glowing up to ... °C. The information "melts" means that the substance melts or sinters in such a way that the dust character is lost before a glowing temperature is achieved.

### Combustibility

The values specified in brackets refer to the modified combustion test with melting substances after admixing 20 % by weight kieselgur.

# Tables of combustion and explosion characteristics of dusts

Group No.	Product group	Page
1	ORGANIC PRODUCTS	
1.1	NATURAL PRODUCTS	
1.1.1	Wood, wood products, fibre materials	34
1.1.2	Food, fodder	52
1.1.3	Coal, coal products	142
1.1.4	Other natural products	160
1.2	TECHNICO-CHEMICAL PRODUCTS	
1.2.1	Plastics, resins, rubber	168
1.2.2	Pharmaceuticals, cosmetics, pesticides	244
1.2.3	Intermediate products, auxiliary materials	270
1.2.4	Other technico-chemical products	342
2	INORGANIC PRODUCTS	
2.1	Metals, alloys	352
2.2	Other inorganic products	388
3	MISCELLANEOUS	396
	Index of materials	443

The materials are listed in the groups by alphabetical order.  
Please take notice of the limits of applicability of the data.

<b>Product group 1.1.1 Wood, wood products, fibre materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Cellulose	1873	100	97	95		88 100	65		13	
Cellulose	4351								22	
Cellulose	0003		100		88		66	46	22	
Cellulose, dust deposits	1872	85	79 100	76		100 58	50		32	
Cellulose	0004				91		46	3	33	
Cellulose	0005				75		25		46	
Cellulose	3417			100						
Cellulose	2001		100	92	71		20	3	51	
Cellulose	3393	71	57 100	44		30	15		180	4.0
Cellulose (felty)	4004									
Cellulose fibres with very fine fibrils	5073		100 100	90		72	52		30	3.4 2.2 2.2
Cellulose (93 % softwood, 6 % hardwood)	0815		100	99		100 95 100	80		14	
Cellulose, microcrystalline (8 % carboxymethyl cellul.)	0813					100	99		2	
Cellulose, native	0814						100	96	8	
Coconut fibres	0819	85	62 100	43		31	20		150	
Coconut fibres/horsehair	0037		100			100				
Cork	0038				83		19	7	42	
Cork	4464	100				100 34 100		12	82	
Cotton	0001		100			100				
Cotton (textile processing), dust deposits	0811		100			100				
Cotton, containing phenolic resin	0812		95 100			30			100	
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			(St 2)	9					5
60	8.0	33	St 1 (St 2)			500		370	5
100			(St 2)						5
60	9.7	229	St 2			540		350	5
125	8.9	56	St 1			530		375	5
15	10.2	126	St 1		>300		480	340	5
60	9.3	66	St 1	11	>100	500		380	5
			St 1 yes		100/300				5
100			St 1						2
15	8.5	99	St 1				420	335	5
100			(St 2)					350	5
30			(St 2)					340	5
100			St 1						4
30	9.6	202	St 1 St 2			470		300	4
			St 2						4
48	8.1	116	St 1				460		5
			St 1						4
30			St 1						4
15			(St 2)						2

<b>Product group 1.1.1 Wood, wood products, fibre materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Cotton flock	5254	88	85 100 100	83		81	76		<10 <10 <10 <10 <10	7.5 7.5 2.3 7.5 2.3
Cotton flakes	5365			100		99	97		<10	2.3
Cotton flakes, ground	0002			98	72		38	25	44	
Cotton fleece/Duroplast powder	1499			100		96	79		15	
Cotton fleece/Duroplast powder	1500	57	51 100	46		34	22		190	
						100				
Flax dust	3287	93	90 100	86		78	66		13	2.1
Foresry waste	2002			47	25		6		130	
Jute, Burma (spinning mill), dust deposits	0817		100							
Jute, Burma (processing)	0818		100			100				
						100				
Lignin	2021			96	85		66	57	18	
Lignin	0039		100							
						100				
lignin	4463					100				
Linters, dust deposits	1249		100	95		72	56		31	
Linters (garnetting)	1900	100	98	88		100	83	15	26	
Linters (garnetting)	1899	95	90 100	70		100	41		42	
						100				
Paper	0043		100							
						100				
Paper	0041		100							
						100				
Paper, dust deposits	0042		100							
						100				
Paper	2022				91		83	73	<10	
Paper	2023									
Paper	2024									



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>st</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			St 1						3 4 4
15 15 30	7.2	24	St 1 (St 2) St 1 St 1 St 1		10/100	560	380	350	4 3 3
30 15	8.2	160	St 1 St 1						3 5
30			St 1						5
60	7.4	83	St 1		>100		480	300	4 5
60	9.0	106	St 1	14		480		310	
30			St 1						5 4
100			St 1						
15	8.7	208	St 2  St 1 yes			470		n.g.u.450	5 2
60	8.1	57	St 1		10/100	450	500	380	5 4
100			St 1				460		4
100			St 1				460		4
100			St 1  St 1  St 1 St 1 St 1						4 4 4
	5.7 4.5 6.8	18 11 25	St 1 St 1 St 1			580 580 510		360 400 420	

<b>Product group 1.1.1</b> <b>Wood, wood products,</b> <b>fibre materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Paper	2025									
Paper (gravure paper)	0821		100	97		92	78		13	
Paper (fibres)	0045				97	100	90	66	16	
Paper, dust deposits	5593		100	98		86	59		23	1.7
Paper (paper machine), dust deposits	5592	99	92	79		100	75	47	35	1.7 7.0 2.7 2.7
Paper	1694	99	97	90		71	37		42	
Paper (wadding production)	5013		100	98		100	83	21	43	
Paper	1791	96	91	80		100	62	36	47	
Paper (waste paper)	1968	100	98	86		63	37		49	
Paper (drying)	1775	100	98	87		100	62	20	57	
Paper, grinding dust	1883	97	92	79		100	43	27	70	
Paper, dust	5405	96	90	75		34	12		80	4.1 1.5 1.5
Paper (newsprint)	0822	92	88	69		100	35	14	87	
Paper, dust from industrial vacuum cleaner	5406	98	92	64		29	14		89	5.1 2.1 2.1 4.5
Paper	3499	94	83	53		100	28	13	115	
Paper (fibres)	0044		100	100		100				
Paper (fibres)	0046	65		33	23				230	
Paper (fibres)	0047	60		32					475	
Paper, tissue	0048		100			100				
Paper, tissue	0049		100			100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explo-sibility	Limit. Oxy-gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	7.6	40	St 1			500		380 310	4
100 125	8.7	60	St 1 St 1			570	380	335	4
30			St 1						5
30			St 1						5
30			St 1						3
30			St 1						3
30	8.8	138	St 1						5
60	9.5	128	St 1						5
30			St 1						5
30 125	5.1	21	St 1 St 1						3
			St 1						3
30 125	6.6	41	(St 2) St 1						5
			St 1		>1000				3
	6.2	88	St 1						4
			St 1						5
	n.i. n.i.					(440) (470)		330 335	5
			(St 2)						4
			(St 2)						4

<b>Product group 1.1.1 Wood, wood products, fibre materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Paper, tissue, dust deposits	0050		100			100				
Paper, tissue, dust deposits	0051		100	75	58				54	
Paper, tissue (100 % waste paper)	1761	76	66 100	54		100 35	15		110	
Paper, cellulose, impregna- ted with phenolic resin	2026				100		90	25	23	
Paper, impregnated with melamine and urea	0052		100			100				
Paper, impregnated with melamine and phenolic resin, dust deposits	0053		100			100				
Peat (≈10 % H <sub>2</sub> O)	0054			84	58		26	3	58	15
			100			100				15
	2814								130	11
	0055	52							400	18
	0056	48							600	14
	0057								2650	12
Peat (≈20 % H <sub>2</sub> O)	0058			82	65		40	15	46	22
			100			100				22
	0059								2000	23
Peat (≈30 % H <sub>2</sub> O)	0060			87	76		43	20	38	31
	0061	49							800	32
	0062								2500	32
Peat (≈40 % H <sub>2</sub> O)	0063			88	76		40	18	39	41
	0064	50							500	42
	0065								2650	41
Peat (≈50 % H <sub>2</sub> O)	0066			68	55		24	9	60	51
	0067	47							700	53
	0068								1700	51
Peat	0069			75	48		22		74	
			100			100				
Peat	0070			73	44		17	9	81	
Peat, fertilising	0071	29							1000	13
			100			100				13
										13

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	8.6	52	(St 2) St 1			540		300	5
			(St 2)						4
30			(St 2)						5
30	9.8	190	(St 2) St 1			490		310	
			St 1						2
30			St 1						1
100			St 1						
60	10.9	157	St 1			480		320	
			St 1		300/1000				4
	5.5	14	St 1			500		315	
	6.4	14	St 1			500		305	
	4.2	6	St 1			500		310	
125	8.4	69	St 1			470		320	
			St 1						4
	n.i.					530		320	
125	8.1	64	St 1			500		320	
	n.i.					510		315	
	n.i.					490		320	
	n.i.					500		320	
	n.i.					500		315	
	n.i.					540		315	
	n.i.					470		340	
	n.i.					590		310	
	n.i.					580		320	
125	8.3	51	St 1			490		310	
			St 1						4
	7.0	20	St 1			500		320	
	5.8	19	St 1			520		310	
30			St 1						4

<b>Product group 1.1.1 Wood, wood products, fibre materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Peat, fertilising	0072	28	100			100			2000	19 19 19
Peat, fibres	0073									
Peat, white, dust deposits	0074				66		33	11	49	
Peat, white, dust deposits	0075		100		50	100			71	
Peat, white, with fertiliser	0076				53		24		67	
Peat, white, with fertiliser	0077	96	100	51					113	
Peat coke, dust deposits	0823		100	99		100 79 100	55		30	
Peat mixed fertiliser (3 % NPK fertiliser)	0081	36	100						1090	20 20 20
Peat mixed fertiliser (4 % NPK fertiliser)	0080	35	100			100			950	12 12 12
Peat mixed fertiliser (6 % NPK fertiliser)	0078	37	100			100			850	21 21 21
Peat mixed fertiliser (9 % NPK fertiliser)	0079	38	100			100			900	9.0 9.0 9.0
Peat powder	5085	97	85 100	56		100 34 100	19		100	3.4 3.0 3.0
<b>Sandalwood</b>	5100	99	96 100	76		55 100 100	36 74 74		54 25 25	6.1 3.8 3.8 3.8
<b>Wadding</b>	2978									
Wood (chips)	0023		100			100				
Wood (chips)	0024		100			100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxy-gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	5.1	12	St 1			510		330	4
30			St 1						
	4.4	9	St 1			570		340	
60	9.5	144	St 1			(360)		295	
60	8.6	91	St 1			460		310	4
			(St 2)						
60	9.0	136	St 1			(350)		295	
60	8.1	79	St 1			480		315	4
			(St 2)						
			St 1						3
100	n.i.		St 1			460		310	4
100			St 1						
	5.1	12	St 1			460		290	4
200			St 1						4
	n.i.		St 1			460		310	4
30			St 1						4
	n.i.		St 1			500		300	4
30			St 1						4
30			St 1						4
			St 1						4
30	9.0	165	St 1		<10 <10 n.ind.		430	320	5
			yes		100/300				5
30			(St 2)						4
30			St 1						

<b>Product group 1.1.1</b> <b>Wood, wood products,</b> <b>fibre materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Wood	1248	87	80 100	76		70	63		<10	
Wood (flour)	2014			78	73	100 100	90 90	74 74	<10 <10	
Wood	5154	96	96 100	92		84	68		18	54 1.9 1.9
Wood	2003					100	85	82	<10	
Wood	4352								21	
Wood (sprinkling flour)	2016				95		53	26	27 31	
Wood, grinding dust	2008				76		50	30	32	
Wood	2004								33	
Wood (powder)	1521		100	98		57 100	28		52	
Wood	2005			84	58		27		60	
Wood (flour)	0017				55		28		60	
Wood (flour)	0018				57		23		62	
Wood (flour)	0019				60				62	
Wood	2006			83	57		26	14	62	
Wood, grinding dust	2009			78	53		25	15	65	
Wood (flour)	0020		100		55		23		65	
Wood	2007	58		57	55	100	43	39	65	
Wood, sawdust	5481	96	91 100	70		30	14		83	6.7 2.7 2.7 5.4
Wood (flour)	4017					100			105	
Wood (chips/dust)	0026	77		64	37				110	
Wood	0816	90	73 100	52		29	12		120	
Wood (chips/dust)	5298	77	52 100	29		100 17	11		240	6.4 1.8 1.8



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
125	8.6	113	St 1	10	1000/10000	460 (430) 500	330	280	4
			yes					340	
	6.1	70	St 1		>10000 >30	550	n.g.u.600	2	
	10.3	224	St 2		500	340			
30	8.6	86	St 1	>30	500	290		5	
			(St 2)						
	8.1	57	St 1		500	310			
	9.2	142	St 1		(470)	305			
	10.5	192	St 1						
	9.0	86	St 1						
	9.0 9.0	100 95	St 1 St 1		510 470	300 290			
60	7.7	83	St 1		490	340		5	
			(St 2)	>6	480	310			
30	8.9	149	St 1 yes		100/1000			5	
	8.6	132	St 1		(410)	310			
30			St 1					5	
30	8.9	144	St 1					5	

<b>Product group 1.1.1 Wood, wood products, fibre materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Wood, cutting dust	0820	64	33 100	13		4			370	
Wood	0007	65	100	22		100			400	
Wood	5205	46	19 100	9		6	3		520	4.8 1.3 1.3
Wood (chips)	5269	31	16 100	3		1			1300 530	7.1 7.1 1.6 1.6
Wood (fibres)	2725					100			<2000	
Wood (chips)	3396	21	12 100	8		5	3		2000	8.4
Wood, beech (flour)	0022				69		30	15	49	
Wood, beech	2010			88	57		22	11	61	
Wood, beech (flour)	2806								62	
Wood, beech (flour)	3410		100 100	93		42	24		70	11
Wood, beech	2011					100				
Wood, beech (flour)	2015			73	36		10	14	75 90	
Wood, beech	2012	99	100	24	12				170	
Wood, beech/tropical (95:5), grinding dust	0012		100	42	31		15		145	
Wood, beech/pine (80:20)	0013				56	100	31	19	57	
Wood, fir/birch	0014		100			100				
Wood, gaboon	0015		100		61		33	25	52	
Wood, makore/nut tree (50:50)	0016		100		89	100	50	30	32	
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	n.i.		(St 2)			560		330	5
15			(St 2)						5
30			St 1						5
<2500	0.7	3	St 1						5
100			(St 2) yes		300/1000				
			St 1					310	3
30	8.9	118	St 1				430		4
30	10.0	200	St 1						
	9.0	138	St 1 yes		100/300	490		310	
								320	4
60	8.0	128	St 1		>10		400		5
	9.7	127	St 1			490		310	
60	10.1	188	St 1			490		310	
125	8.2	48	St 1			500		320	
60	8.1	56	St 1			490		320	5
			(St 2) St 2						5
	10.0	211							
30			St 1						5
60	8.0	43	St 1			520		340	
			(St 2) St 2						5
	9.8	238				510		320	
30			St 2						5

<b>Product group 1.1.1 Wood, wood products, fibre materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Wood, pear tree	0008		100		90		58	35	27	
Wood, pear tree (flour)	0021				90	100	55	27	29	
Wood, pear tree	0009		100		87		50	28	32	
Wood, pear tree/nut tree (50:50)	0010		100		86		45	24	35	
Wood, pear tree/nut tree (50:50)	0011				98	100	45	20	35	
Wood, Soft-	2013				78		33	18	45	
Wood, spruce (chips)	5092	39	16	2		2	1		600	17 4.5
Wood, spruce (chips)	5091	36	12	1		1	1		630	17 3.9
Wood, spruce/pine (chips)	0025	7		1					2300	
Wood, chipboard produc- tion	0031		100			100				
Wood, chipboard produc- tion, chips impregnated with ammonium phosphate, dust deposits	0036		100			100				
Wood, chipboard produc- tion, dust deposits	0032		100		70		30		43	
Wood, chipboard produc- tion (10 % solid resin, 0.5 % solid paraffin)	0035		100		55		33	22	50	
Wood, chipboard produc- tion, grinding dust	0033				61		17		61	
Wood, chipboard produc- tion, sawdust	0034	10							1500	
Wood, fibre mat production, resins as binder	0029		100		33		18		95	
Wood, fibres, resins as binder	0028	20	100			100			1000	14 14 14
Wood, hardboard produc- tion, dust deposits	0030	95	100	58	41		21		90	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	9.5	211	St 2			500		320	5
	10.5	205	St 2 St 2			(400)		300	
30	9.3	185	St 1			500		340	5
	9.3	185	(St 2) St 1			500		340	
30	9.0	150	(St 2) St 1					315	5
	9.3	124	St 1			510		340	
100	n.i.		St 1						5
	n.i.		St 1						
200			(St 2)						4 2
			St 1						
60	9.2	102	St 1			490		320	3
60	9.2	129	(St 2) St 1			510		330	
60	9.7	156	(St 2) St 1						4
	n.i.								
30	7.1	36	St 1			530		320	5
	n.i.		(St 2)			(400)		340	
30			St 1			410		310	5
			(St 2)						

<b>Product group 1.1.1 Wood, wood products, fibre materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Wood, resins as binder	0027		100		85		58	25	29	
Wood/board (50:50), 15 % phenolic resin	2017					100				
Wood/board (50:50), 15 % phenolic resin	2018									
Wood/board/jute	2019									
Wood/board/jute/resin	2020									
Wood/plastic	5227	70	50 100	28		19	10		250	4.9
						100	46	19	34	3.4
Wood pulp	0084				99		94		<10	
Wood pulp	0085				90		57		31	
Wood pulp	0086				78		32		42	
			100			100				
Wood pulp	0087				75		31		45	
			100			100				
Wood pulp	0088				40		13		85	
Wood pulp	2683									
Wood pulp	2684									
Wood pulp	2685									
Wood pulp	2904									
Wood pulp (approx. 90 % cellulose)	5065	14	11 100	8		6	4		>10 <sup>4</sup>	6.9
						100	87	62	17	2.3
Wood pulp, flakes	4039									2.3
Wood pulp flour	0082				96		76	50	20	8.3
Wood pulp flour	0083				93		76		29	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15	8.4	84	St 1			500		290	5
	4.5	11	(St 2) St 1			630		340	
	6.1	22	St 1			580		320	
30	5.8	26	St 1		>100	610		360	5
30	8.4	67	St 1		>3	520		350	5
60	9.0	142	St 1		10/100		430		2
	9.3	62	St 1						
	9.5	115	St 1						
30	9.9	62	St 1			540		410	5
60	10.0	92	St 1 St 1			520		410	5
	10.0	125	St 1 St 1						
			yes		>100 >100 >1000 100/300				
60	9.7	158	St 1		>1000				5
	9.1	107	St 1			(480)		325	
	9.8	168	St 1						

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Animal fattening product	3438	39	21 100	13		7	4		780	8.2
Animal feed (maize starch, antibiotic)	1659			100		100 99	89		13	
Animal feed, dust from drying unit	3390	97	89 100	66		37	10		89	5.8
Animal feed, sweepings	5171	95	81 100	68		100 37	16		90	13 2.6 2.6
Animal feed, store sweepings	5168	93	83 100	64		100 20	7		100	17 3.0 3.0
Animal feed, dust deposits	5169	91	75 100	40		100 20	9		150	8.1 3.1 3.1
Animal feed, dust deposits	5165	83	69 100	40		100 18	7		160	14 1.8
Animal feed, pellets, scrapings from floor	5167	76	65 100	36		100 10	58 1	41	26 180	1.8 11 3.2
Animal feed	5217	100	87 100	24		100 6	5		190	3.2 3.6 1.7
Animal feed, fish meal	5170	78	60 100	37		100 15	6		190	1.7 8.1 2.3
Animal feed, fish meal 65 %, 3 % preservative	5172	81	57 100	36		100 15	6		200	2.3 9.1 2.4
Animal feed (mineral salts, yeast, vitamins)	1660	61	52 100	31		100 22	12		249	2.4
Animal feed, mixed feed dust	5080	55	37 100	27		100 22	15		410	9.6 3.1
Animal feed	3495	47	23 100	10		100 5	3		560	3.1 9.3
Animal feed, pellets	5166	14	8 100	4		2			2200	6.1 3.8



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			yes St 1				420	300 melts	2 2 3
30	7.6	96	St 1 yes		1000/10000		460	280	4 4
100			St 1						2
100			St 1						2
30			St 1						2
30			St 1		10/100		440		2
30			St 1						2
30			St 1						2
30			St 1						2
30			St 1						2
30			St 1						2
30			St 1						3
250	6.4	37	St 1		>100		440	320	2 4
100			St 1						2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Animal feed binder (lignine sulphonate and potato water concentrate)	5028	99	98	85		20	6		83	2.7
Animal feed, intermediate product (rape/beans)	3363	60 100	33 100	17		5 100	3		410	8.8
Animal meal	0217	76	100	40	24	100			165	
Animal meal	2085	93	100	32	7	100			170	
Animal meal	2086	78	100	31	10				200	
Animal meal	0218	76	100	26	12	100			220	
Animal meal	2087	85		32	24				220	
Animal meal	5456	76	50 100	10					250	2.3 1.4
Animal meal	5236	66	46 100	27		10	2		290	2.6 1.2
Animal meal	5242	77	46 100	8		100			300	1.2 3.6
Animal meal	5230	64	41 100	19		2			310	1.2 1.9
Animal meal	3472	60	34 100	3					370	1.9 5.1
Animal meal	0219	52	100	16	9				480	
Apple powder, hot spray dried	0089		100	30	9	100			155	
Apple powder, cold spray dried	0090	80	100						370	
Banana dry aroma (aroma/maltodextrin/ sugar/gum arabic)	5401		100	98		95 100	70		15	1.8 1.8
Banana flakes	3183	38	9 100	2		100			600	1.0 1.0 1.0

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			St 1						2
			yes		10 <sup>5</sup> /10 <sup>6</sup>				2
250	6.5 6.6	24 34	St 1 St 1			570	400	575	3
	n.i.		St 1			540		350	3
	n.i.					550		370	3
	3.9	9	St 1			550		n.g.u.450	3
15			St 1						2
1500	8.5	90	St 1			580		n.g.u.450	
200	0.6	4	St 1						3
			St 1						3
30			St 1						3
100			St 1						3
100			St 1						3
30	5.4	23	St 1		>300		520		3
125	5.5	16	St 1			580		n.g.u.450	3
			St 1						3
125	6.7	34	St 1			600		330	3
	n.i.					550		380	3
									2
60	9.9	177	St 1						5
			St 1						2
									2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Banana powder	3184	98	81 100	39		22	11		140	1.2 1.2 1.2 11
Barley, cleaned grain	3453		100			100				
Barley, USA	0106	88	100	26	8	100			190	
Barley, Canada	0107	77	100	35	20	100			210	
Barley	3014	79	51 100	25		8	3		240	
Barley, cleaning dust	3434	58	38 100	22		15	12		400	7.2
Barley (malting), raw	3436	2	2 100	1		1	1		>10 <sup>4</sup>	6.3
Barley bran pellets	1586		100			100				
Barley flakes	1585					100				
Barley flour	3447	83	58 100	44		31	15		170	4.9
Barley malt, ground	3309		100	93		63	28		50	3.0
Beer draff	1474			100	74	100	33	10	68	
Biscuit crumbs	1684	87	76 100	39		3			150	5.0
Biscuit dough (finished product)	3105	92	68 100	60		46	35		80	5.4
Blood meal	3461		100	99		84 100	40		35	5.5
Blood meal	2082				85	100	25	10	46	
Blood meal	3311	99	93 100	72		37	14		80	5.6
Blood meal	0856		100	78		26 100	4		90	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
750	5.2	10	St 1						2
			St 1						2
750	7.4	29	yes				380	n.g.u.450	2
			St 1			(440)	300		4
125	7.7	83	St 1						4
			St 1			(420)	290		4
15	9.4	145	St 1		>100		400		2
			St 1						4
30	8.1	72	yes				430	280	4
			St 1						4
30	8.1	152	yes				400	340	2
			St 1						2
30	6.1	27	St 1				410		4
			St 1				390		3
30	8.1	72	St 1		>10			290	2
			St 1		>10		390		2
30	8.1	152	St 1				440	300	2
			St 1						2
250	6.1	27	St 1		10 <sup>5</sup> /10 <sup>6</sup>				3
			St 1						
30	8.1	72	St 1						2
			St 1						2
30	7.4	106	(St 2)						
			St 1						1
60	8.6	115	St 1		>100		560	melts	1
			St 1			650	n.g.u.450		
30	8.6	115	St 1				490		5
			St 1						1
30	8.6	115	St 1						1
			St 1						2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Blood meal	2823								94	
Blood meal	2083			47	33				140	
Bone meal	0858		78 100	40	13		1		180	
Blood meal	2084	92	100	10		100			250	
Bone meal	2677								250	
Bran pellets	3333	12	6	5		4	3		4000	12
Bread remainders	3260	78	44 100	17		6	2		300	8.2
Breadcrumbs	2961					100			90	
Breadcrumbs	3261	92	68 100	30		13	6		200	6.9
Breadcrumbs	3405	19	5 100	3		3	2		1000	11
Brewer's yeast	4461					100 100				
Brewer's yeast, spray dried	0091		100		26		5		100	
Brewer's yeast	3220	32	13 100	8		100 6	4		800	10
Butter dry aroma (aroma/maltodextrin)	5400			100		100 85 100	44		35	2.1 2.1
Capuccino powder	3511	67	25 100						390	2.8
Caramel	3195	100	99 100	100 83		52 100	34		61	1.6 1.6 1.6
Caramel, dry	0235			93	46	100	16		75	
Carboxymethyl starch	4214					100				
Carrot powder, cold spray dried, (strongly hygroscopic)	0116		100	35	11	100			150	
Cat food	3263	88	68 100	50		26	6		125	9.3

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explo-sibility	Limit. Oxy-gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibil-ity
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
200	n.i.		yes		100/300	580		n.g.u.450	2
	n.i.		St 1			560		n.g.u.450	2
<15			St 1		>300		440		2
			St 1						2
			St 1	yes	100/300				2
			St 1						2
30	8.7	105	St 1					2	
30	7.2	51	St 1		>10		420		2
	8.6	126	St 1			520		590	2
60			St 1						2
			St 1						2
			St 1						2
60	9.9	218	St 2					5	
60	6.3	94	St 1		>10		370	350	2
			yes (St 2)						2
30	8.1	85	(St 2)			490		455	2
			St 1						3
30	9.0	49	St 1		10 <sup>5</sup> /10 <sup>6</sup>	610		n.g.u.450	3
	n.i.		St 1						2
30			St 1						2
			St 1						2
			St 1						2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Cat food	3264	86	65 100	46		21 100	3		150	8.6
Cat food	3265	75	9 100	1		1 100			420	6.1
Cattle feed (pellets)	3541		100			100				
Cattle feed	3157	57	35 100	22		15 100	11		410	8.3
Celery roots, dust from filter	0162				99		98	96	<10	
Celery roots, dust from filter	0163						93	51	19	
Celery powder	5248	100	91 100	73		59 100	44		46	6.3 1.6 1.6
Chicken fattening feed	3437	68	46 100	32		25 100	18		300	12
Chickenfeed	3158	44	29 100	20		14 100	11		600	10
Chicory dust (instant)	3313	100	96 100	70		36 100	17		88	1.4 1.4 1.4
Choco-drink-food, diet	3088	100	98 100	82		36 100	18		70	4.2
Cinnamon, ground	3496	100	97 100	81		57 100	28		58	9.8
Citric acid powder	5052	100	99 100	92		73 100	53		30	0.4 0.4 0.4
Citrus pellets	3007					100				
Cocoa	4455		100			99 100		70	12	1.8
Cocoa	3182		100	99		92 100	37		34	3.5
Cocoa, dust deposits	5153	65	51 100	48		34 100	23		230	4.9 2.2 2.2



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			St 1						2
			St 1						2
			St 1						2
			St 1						2
30	5.6	74	St 1					290	3
			yes		>10				
500	5.1	12	St 1					430	2
			St 1						2
	7.5	55	St 1						
125	8.8	99	St 1			480		395	
			St 1						
125	9.1	110	St 1			500		370	
			St 1						
200			St 1						4
			St 1					290	1
			yes						2
			St 1					460	2
			St 1						2
			St 1					530	2
			St 1						2
			St 1						2
			St 1						2
			St 1						2
60	8.3	182	St 1					280	4
			St 1		>5			480	4
			St 1						
100			St 1						2(2)
60	7.7	39	St 1					460	
			St 1		>10 <sup>5</sup>				
57			yes	9				480	
			St 1						4
			St 1						
30			St 1						4

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Cocoa (12 % to 14 % fat)	3091		100	98		93	85		<10	2.2
Cocoa (8 % to 12 % fat), start product	3514	38	33 100	29		25	20		<10 2000	2.0 2.0 2.0
Cocoa (<1 % fat), end product	3515	26	23 100	21		20	17		<10 <sup>4</sup>	2.3
Cocoa - ready drink	2737								34	
Cocoa - ready drink (sugar reduced)	2738								51	
Cocoa powder (27 % fat)	3469		100	99		97	70		20	5.3
Cocoa powder (20 % to 22 % fat)	3206	99	98 100	95		87	40		36	2.0 2.0 2.0
Cocoa powder (18 % fat)	3470	100	99 100	97		93	36		35	3.6
Cocoa powder (16 % fat)	3471	100	99 100	98		91	20		40	3.8
Cocoa powder (approx. 12 % fat)	3018			100		99	95		3	
Cocoa powder (10 % to 12 % fat)	3348			100 100		99	97		<10 <10	4.6
Cocoa powder (10 % to 12 % fat)	3205			100		99	95		<10 <10	3.3
Cocoa shells	1588	25	12 100	6		5	3		900	
Cocoa shells, crushed	3019	10	5 100	2		1			2500	
Cocoa/sugar, mixture for mixed drink, highly de-oiled	0115	53	100	20		100			450	
Coconut expeller	3454		100	99		30	6		70	10
Coconuts, crushed	3218	63	38 100	22		13	3		350	8.4
Coconuts, crushed	3212	55	32 100	19		12	7		450	8.3
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			St 1						4
			St 1						4
125	6.7	78	St 1		>10 <sup>5</sup>		560	250	4
125	7.2	108	St 1 yes yes		>10 <sup>5</sup> 30/100 100/300		560	250	4
30	6.5	63	St 1		>10000 >10000		590 500	250	4
			yes				490		4
			yes				540	250	4
30	7.3	83	St 1		>10 <sup>5</sup>		550	260	4
125	9.1	62	St 1				490	250	4
15	8.3	98	St 1						4
			yes		>10 <sup>5</sup>		530		4
125	9.1	62	St 1				490		4
			St 1				490		4
125	8.1	68	St 1		>10 <sup>5</sup>				4
125	7.4	43	St 1			580		460	2
			St 1						4
15	7.5	61	St 1 St 1		>100 >50		480	280	4
			St 1						2
			St 1						2
			St 1						2
			St 1						4

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Coffee	2037				100		99	89	<10	
Coffee	4456		86 100			44		7	80	1.6
Coffee	4453	100	100			100 32		6	100	5.0
Coffee (ground coffee)	3314	89	80 100	68		49	34		70	5.0
Coffee (ground coffee)	0837	93	50 100	27		7			250	
Coffee (ground coffee)	0838	81	37 100	23		8			300	
Coffee (ground coffee), dressed	3214	82	27 100	14		2			330	3.1
Coffee powder residue	2799								2100	
Coffee, decaffeinated	3352	99	96 100	89		79	42		35	4.8
Coffee, extract, spray dried (powder)	3442	96	89 100	74		57	35		50	5.8
Coffee, extract, freeze dried (powder)	3443	100	77 100	53		39	6		115	4.3
Coffee, instant	0839		100			100				
Coffee, instant	2039				88		61	29	26	
Coffee, raw	0845		100			100				
Coffee, raw	3312	100	99 100	98		93	75		15	5.4
Coffee, raw	3271	97	94 100	91		82	52		30	7.9
Coffee, raw	3270	92	89 100	86		72	35		35	8.5
Coffee, raw	1255	91	83 100	78		61	35		50	
						100	55	17	29	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	9.0	90	St 1			470		n.g.u.450	
45	6.2	55	St 1				480	380	
60			yes St 1				480 500	300	3 4
100			St 1						4
200			St 1						4
125	6.7	9	St 1				460		4 4
	6.8	11	St 1		>5·10 <sup>5</sup> >1000		460		4 4
15	7.8	94	St 1		>100		530		2 2
			St 1		>500				2 2
			St 1		>1000				2(2)
15			St 1						
60	8.9	77	St 1			550		n.g.u.450	4
30			St 1 St 1				470		3 3
30	8.9	109	St 1 St 1		>100			270	4 4
30	7.6	99	St 1		>100		510	270	4 4
							530		
100			St 1		10/100		420		4

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Coffee, raw	3315	61	52 100	42		36	28		220	6.8
Coffee, raw, decaffeinated	3269	15	5 100	2		100 1	1		1000	6.5
Coffee, waste	2038	90		22		100			290	
Coffee creamer	3073	100	40 100	32		9	4		265	4.0
Collagen	3223	97	88 100	73		100 39	15		80	3.8
Concentrated feed	0122		100		74	100	64	46	22	
Concentrated feed	0123	70	100	27	14	100			260	
Concentrated feed pellets	3086	1	100			100				4.6
Copra expeller, dried	0120	52	100	7		100			490	
Copra pellets, dried	0121	53	100	7		100			410	
Coriander, ground	3171	99	87 100	28		5	3		150	8.9
Coriander, ground	3377	96	59 100	27		100 10	5		210	8.2
Cream cake mix	3483	85	59 100	10		100 1			240	2.7
Crispbread (crumbs)	3531		100	97		83 100	66		20	3.6
Crispbread (crumbs, wholemeal)	3529		100	97		84 100	63		24	3.6
Crispbread (crumbs, sesame)	3530	96	87	74 100		4	1		100	3.2

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explo-sibility	Limit. Oxy-gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibil-ity
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
250	6.9	36	St 1		>5·10 <sup>5</sup>		n.i.u.540	280	4
			St 1				4		
			St 1				3		
	2.4	5	St 1			580	520	290	4
			St 1						3
			St 1						3
60	7.5	42	(St 2)		>10 <sup>5</sup>				2
			St 1						2
125	8.1	74	St 1			520		295	2
500	8.0	78	St 1			530			2
			St 1	3					
			St 1	2					
250	6.5	20	St 1			(420)		300	2
			St 1	2					
250	7.5	32	St 1			(470)		290	3
			St 1	3					
	5.8	21	St 1						4
			St 1	4					
			St 1	4					
30	6.4	40	St 1		1000/10000				4
			St 1	4					
60	4.8	28	St 1				550	melts	3
			St 1	3					
60	8.1	155	St 1		>5		380		3
30	6.4	133	St 1		>10		400		3
60	5.3	61	St 1		>50		380		3

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Crispbread (dust)	3411	97	68 100	30		2 100	1		180	4.9
Crispbread (crumbs)	3298	74	48 100	24		10 100	5		280	3.2
Crispbread (crumbs, sesame-wheat)	3485	71	39 100	12 100		1 100			300	4.3
Crispbread (crumbs, sesame)	3305	59	15 100			100			450	3.7
Curd powder	3367		100	97		85 100	39		35	5.3
Curd powder	3037	95	71 100	44		28 100	19		150	3.0
Dairy cattle feed	3482		100							
Dairy cattle feed	3464	9	5 100	3		1 100	1		4000	11
Dextrose	3170			100		94 100	70		20	<0.1 <0.1
Dextrose	3008			100		94 100	71		22	
Dextrose	0092				38		5	4	80	
Dextrose	2892					100			132	
Dextrose	3369	99	84 100	46 100		13 100	5		145	9.0
Dextrose	3302	99	81	21		1 100			175	0.0
Dextrose	3422	100	94 100	18		4 100	1		200	8.8
Dextrose (10 % additives)	3465	91	42 100	18		12 100	8		300	8.4
Dextrose, mixture	3310	97	75	44		15 100	5		150	7.8
Dextrose, monohydrate	3329	90	4	2		2	1		450	8.8
Dextrose, Poly-	2973								130	



Lower Explos. Limit	Max. Explos. Overpressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	6.9	30	St 1		>100		430		2
			St 1						3
			St 1						1
			St 1						2
30	7.3 7.5	108	St 1		10/100		510		3
			St 1						3
			St 1						1
			yes						2
			St 1					2	
			(St 2)					2	
60	4.3	18	yes		>1000	500	550	280	4
			(St 2)						2
			(St 2)						3
			(St 2)						2
125	6.2 4.1	47 9	St 1		100/1000		450	290	2
			St 1						2
			St 1						2
			St 1						2
125	6.0	36	St 1		>10 <sup>6</sup>		n.i.u.530	melts	2
			St 1						2
60	7.0	91	St 1		>10		440	melts	2
			St 1						2
125	3.5 3.2	18 8	St 1		>100 n.ind.		410	melts	1
			St 1						2
			yes						2
					30/300				

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Dog food (pellets)	3431		100			100				
Dog food	3266	46	22 100	8		3 100	2		560	8.1
Dog food (granulate)	3432	20	13 100	8		3 100	2		1300	3.3
Dough premix (60 % maizeflour, 30 % potato flakes, 5 % sugar, 5 % salt)	5383	98	80 100	29		10 100	8		200	7.0 3.8 3.8
Dough, yeast, prefabricated flour (meal, sugar, salt, emulsifier and fat)	0836	94	88 100	76		30 100	2		90	
Draff flour	3251	65	40 100	23		12 100	7		340	13
Durum wheat groats	3498	100	87 100	57		27 100	8		105	12
Durum wheat groats	3292	99	20 100	8		7 100	6		350	12
Durum wheat haze	3291	100	71 100	14		8 100	7		215	12
<b>Egg powder</b> (extraction residue)	1949	90	69 100	56		36 100	14		110	
Egg powder	1948	100	97 100	37 100					135	
Egg powder, whole	3107	50	22 100	3		3 100	1		500	3.5
Egg powder, whole	3009	50	22 100	3			1		500	
<b>Fat concentrate 27 %</b>	2027			81	37		11		89	
<b>Fat concentrate 35 %</b> (fodder premix)	0096		100	57	29		13 8		117	
<b>Fat concentrate 40 %</b> (fodder premix, 30 % lactose, 23 % protein)	0097		100	72	30	100	9 4		100	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>st</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	7.6	55	St 1 St 1 St 1		>100		470	n.g.u.500	1 2 2 3 3
125	6.7	41	St 1		>5·10 <sup>5</sup>		400	400	2
30			St 1						3
30	5.3	20	St 1 St 1		>5·10 <sup>5</sup>		390 410	320	2 2 3 3
125	8.0	139	St 1 St 1 St 1 St 1		>10		400	320	2 2 2 2
30 15			St 1 St 1 St 1 St 1						3 3 2 2 2
60 30	8.3 8.1	86 74	St 1 St 1 St 1			480 500 450		370 385 350	2 3

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Fat concentrate 50 % (fodder premix)	0098		100			100				
Fat powder	3012					100			<63	
Fat powder (30 % animal, with fish)	3307		100	87		33	11		80	3.0
Fat powder (approx. 48 %)	3177		100	75		24	7		92	1.1
Fat whey mixture	2028	76		11	3	100			330	1.1
Fat with lecithin	0099		100	52	24		8		120	
			100			100				
Feather meal	2816								180	
Feather meal	3072	95	78	12		1			180	3.2
			100			100				
Feather meal	5321	71	54	14		1			245	1.9
			100							1.9
Feed additive (30 % wood flour, 25 % fat, 10 % sugar, 10 % protein)	0831	56	18	8		1			450	1.9
			100			100				
Fish feed, based on fishmeal	0825		100	94		50	18		63	
						100				
Fish feed, based on vegetable	0826	100	99	83		49	18		65	
			100			100				
Fish feed	2664								130	
Fish feed, prawns	0827	77	48	33		14	7		260	
			100			100				
Fish meal	0100				98		49	26	33	
Fish meal (fish protein concentrate)	5125		100	96		60	17		54	4.4
						100	44	8	35	4.4
Fish meal	5259	81	66	51		23	13		120	7.8
Fish meal	0828	93	74	52		19	3		120	
			100			100				
Fish meal	3473	82	66	44		18	5		150	9.4
			100							
Fish meal	5123	89	72	41		13			160	4.4
			100							1.3
				100		88	52	5		1.3
Fish meal	5260	74	55	38		22	11		200	6.4

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15			St 1		>100		470		2
30	6.4	20	St 1 (St 2)		>100				1
	7.0	23	St 1 (St 2)		>100		430		2
30	8.0	62	St 1		>100	450		410	5
			(St 2) yes		300/1000	420		n.g.u.460	5
			St 1						2
			St 1						2
100			St 1						3
<15	7.6	93	St 1				320	300	3
15			St 1						2
30			St 1 yes		100/1000				2
30	6.4	90	St 1 St 1						2
30			St 1		10/100		430		2
200			St 1						2
30			St 1						2
60	6.7	68	St 1		>100		530	melts	2
30			St 1		100/1000		440		2
500	6.7	45	St 1		10 <sup>5</sup> /10 <sup>6</sup>				2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Fish meal	3408	60	43 100	21		6 100	2		300	6.4
Fish meal	2029	68		23	12				320	
Flour, Type 700	3237		100	97		61	39		45	13
Flour	3174		100	85		42 100	22		72	3.6
Flour	2998								85	10
Flour	2999								110	2.1
Flour (maize and rice)	3406	99	90	49		10 100	1		130	2.4
Flour, bread	3139	94	72 100	33		14 100	7		180	4.3
Flour	3173	100	56 100	22		10 100	2		210	1.0 1.0 1.0
Flour, mixture	3535	64	36 100	25		6 100			300	0.6 0.6 0.6
Flour	3262	24	23 100	7					1000	2.4
Flour, from oven (60 % Type 1150, 40 % Type 1050)	3439	47	39 100	28		5 100	2		540	5.9
Food seasoning, based on fatty acid glycerides and citric acid	1265	91	40 100	10		6 100	4	17	310	0.3 0.3
Food seasoning, based on fatty acid glycerides and lactic acid	1266	86	32 100	2 10					320 170	0.8 0.8
Fresh water shrimps, ground	5216	100	94 100	75		47 100	26		70	6.8 1.8 1.8
Fructose	2032	99		39	17				150	
Fructose	2030	92		15					200	
Fructose	0829	100	77	4		1 100			235	
Fructose	0830	79	23 100	3		2 100	1		400	
Fructose	2031	81							400	
Fruit juice, dried (raspberry)	2069	99	20	9	2				300	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	5.8	26	St 1						2
			yes				470		2
125	7.0	35	St 1			530		melts	2
60	7.4	44	St 1		>100		460	330	2
			St 1						2
			St 1						
			yes		>1000 300/1000				
			yes				400	n.g.u.500	
			St 1				380		2
			St 1						2
60	9.7	63	St 1				380		2
			St 1						2
			St 1						2
			yes				400	350	2
			St 1						2
			St 1						2
45			St 1		>100				2
60	7.3	88	St 1						
			St 1						
			St 1						
			St 1						
125	6.2	34	St 1		10/100		380	melts	2(3)
			St 1						
			St 1		100/1000		340	melts	2(2)
			St 1						
			St 1						2
30			St 1						
60	9.0	102	St 1		<1		430	melts	
60	7.0	28	St 1		>100		440	440	
60	7.0	28	St 1					melts	
			St 1						
			St 1						
			St 1						
60	7.5	100	St 1				360	melts	2(2)
125	6.4	27	St 1		>3000		530	melts	
30	6.5	25	St 1				500	n.g.u.450	

Product group 1.1.2 Food, fodder		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Galactose	2828								<10	
Gelatine	5589	100	99 100	94		62	25		50	6.6 4.0 4.0
Gelatine	2033				63	100	63	25	28	
Gelatine	5327		100	76		35	15		65 87	4.2 4.2
Gelatine	0832		100	66		33	17		35 95	
Gelatine	0833	47	8 100	2		1			650	
Gelatine	1605	17	4 100	1		100			940	
Gelatine	2034					100			1550	
Gelling agent (50 % hydrocolloids, 20 % monosaccharides, 10 % phosphates, 10 % fruit acids)	0834	100	98 100	81		52	36		50	
Ginger, ground	3378	99	88 100	71 100		54	17		60	11
Glucose	0835	100	92 100	74		100 57	30		60	
Glucose, dry	1773	100	90 100	54		100 31	19		115	
Glucose, dry, brown 10 %	5271	100	91 100	38		100 10	6		160	3.5 2.2 2.2
Glucose	0234	91	100	7		100			330	
Glucose syrup, dried	1253		100	93		100 59	25		54 30	
Glutamate	3412	100	52 100	10 100		4	2	18	245	0.1 0.1 0.1



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			yes		300/1000				
60	7.6	85	St 1		300/1000		520	530	2
60	8.2	70	St 1			560		n.g.u.450	2
30			St 1		10/100		480		2
30			St 1						2(2)
30			St 1						2
	n.i.		St 1			n.i.u.850		n.g.u.450	2
30			St 1						2
60	6.7	52	St 1		1000/10000				4
	7.3	56	yes St 1				460		4
30			(St 2)				370	melts	2(2)
100			(St 2)						5
30			(St 2)						2
	n.i.					480		melts	1
100			St 1					520	3
60	9.2	123	St 1		10/100		390		2
60	5.6	24	St 1		>10 <sup>6</sup>				2
							n.i.u.540		

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Grain, dust from silo	3325	94	91 100	86		81	76		<10 <10 <10	9.6
Grain, silo dust (maize/wheat/ oats/barley/rye)	5081	93	92 100	90		88	71		12	9.8 3.6 3.6
Grain dust from silo	3327		100 100	98		90	66		18	4.7
Grain, mixed dust from filter	0103		100		63	100	48	40	37	
Grain, sieved out	0104		100		58	100	36	21	50	
Grain, dust	3113	93	83 100	67		48	34		70	6.3
Grain Grain, mixed dust, deposits	2035 0105	82	58 100	40	24 28	100	13		160 172	
Grain, crushed, extra fine	3140	48	38 100	33		30	26		580	5.8
Grain screening pellets	1587		100			100				
Grain dust/meat meal (approx. 80:20)	3326	98	96 100	91		82	64		20	4.4
Gravy, premix (29 % starch)	3208	64	40 100	19		5	2		330	2.4
Gravy, premix (21 % starch)	3005	78	38 100	5		1			320	0.7 0.7 0.7
Gravy, premix (without starch)	3006	8	1 100	1		1			>1000	0.2 0.2 0.2
Greaves flour	0113	55	100	1		100			420	
Greaves flour	3537	39	3 100			100			550	1.0

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			St 1				410		2
			(St 2)						2
125	9.2	131	St 1						4
			(St 2)						2
125	7.9	45	St 1			510		300	2
			(St 2)						2
60	8.7	79	St 1			520		300	4
			(St 2)						4
60	9.3	89	St 1	yes			360		2
			(St 2)						2
60	8.1	110	St 1			490 (420)		290	3
			(St 2)						2
30	n.i. n.i.		St 1				390		2
			(St 2)						2
30	3.8	5	St 1		>10 <sup>6</sup>		380		4
			(St 2)						2
30	5.1	12	St 1		>10 <sup>6</sup>		430		2
			(St 2)						2
30	n.i. n.i.		St 1				410		2
			(St 2)						2
30	n.i. n.i.		St 1				480		2
			(St 2)						2
30	n.i. n.i.		St 1				470		2
			(St 2)						2
30	n.i. n.i.		St 1				510		2
			(St 2)						2
30	n.i. n.i.		St 1				500		2
			(St 2)						2
30	n.i. n.i.		St 1			620		n.g.u.450	2
			(St 2)						3
30	n.i. n.i.		St 1						3
			(St 2)						3

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Grinder cleanings	3476	36	33 100	28 100		22	16		1500	9.8
Groats	3129	98	34	7		2 100			300	
Hard flour	2036			99	38		8		83	
Hazelnut abrasion	3497	25	11 100	2 100					900	2.9
Hazelnut macaroons	3104	54	20 100	6		100 2	1		460	2.5
Hibiscus powder	5246		100	71		100 36 100	25		87	2.2 2.2
Honey gruel powder	3204	99	89	63		32			100	<0.1
Hop powder	3151	98	96 100	91		69 100	51		30	4.6
Infant food	3092		100	75		25 100	6		93	1.9 1.9
Juice binding jelly	3108		100	96		66 100	37		44	3.8
Lactose	2100				99		92	77	10	
Lactose	0860			100		97 100	75		19	
Lactose	2041				83		60	47	22	
Lactose	0124				97	100	70	41	23	
Lactose	2101				91		65	41	24	
Lactose	0230				98		64	32	27	
Lactose	0231		100		86		52	28	30	
Lactose	2042			97	82		47	30	34	
Lactose	2043				82		47	24	34	
Lactose, D(+)	0125		100		76		39	19	40	
Lactose	3294	100	98	80		100 40	18		70	0.1

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60 60 60	7.8 5.7 6.5	129 24 41	St 1 St 1 St 1		>10  >100		530 380 380	290	3
60  125  30	8.2  7.6	81  102	St 1  St 1 St 1 St 1 St 1 St 1 St 1		>10	460	470	n.g.u.450 280	3 4  3 3 4 2 4 4
			St 1 St 1						2
			St 1 St 1						2
60  125 60  30 60 60	8.3  6.9 7.7	75  29 81	St 1  (St 2) St 1 St 1 (St 2) St 1 St 1 St 1		>10  >30  >10	440  450 520	400	melts 430 n.g.u.450 n.g.u.450	5 2(2)  3
60 60 60	8.5 8.3 8.0	83 82 71	St 1 St 1 St 1			440 490 490		melts 460 480	5 2  2
60 60 125	8.2 7.6 8.0	63 35 70	St 1 St 1 St 1		>30	480 450 470		melts n.g.u.450 520	3  3
	6.7	50	(St 2) St 1		>10		420		2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Lactose	3131	100	99	71		34 100			83	
Lactose	2682								120	
Lactose	2044			45	4				130	
			100							
Lactose	0126			40	15				140	
			100							
						100				
Lactose	3303	96	62	22		8	4		220	0.0
Lactose	2676								225	
Lactose/fat/casein (32:60:6)	2102		82	45	23				135	
Lactose/maize starch	0127			74	52		32	25	70	
			100							
						100				
Leaven, dry	3407		100	98		87 100	54		30	4.6
						100				
Leaven, natural, dried	1262	99	96	79		50 100	35 65	27	63 27	
Leaven	3235	87	61 100	44		33 100	18		140	4.1
Leaven ingredients (extract, rye)	3526	87	52 100	51		40 100	5		120	3.0 3.0 3.0
Liquorice	3540		100							
						100				
Lupin semolina, enriched (85 % to 90 % protein)	3533	97	94	89 100		12 100	2		100	5.0
Lupin semolina, enriched (30 % protein)	3532	94	65 100	30		10 100	2		185	8.3
				100						
Lupin semolina	3534	96	36 100	14		6 100	3		300	6.9
				100						
<b>Maizarin</b>	3388	62	29 100	13		7 100	5		400	11
Maize (yellow maize USA)	0109			84	71		54	40	28	
			100			100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	6.3	41	St 1				380		
60	6.9	51	St 1		>10 >1000		380		
125	1.7	3	St 1			450		melts	3
	6.6	31	St 1			480		n.g.u.450	2
30			St 1						
125	4.8	16	St 1		>1000 >2 >30		430	melts	2
60	8.6	87	St 1			420		n.g.u.450	
125	8.6	95	St 1			520		n.g.u.450	
			St 1						3
	7.8	103	St 1		>10 >10 n.ind.		410	280	2
100			St 1		10/100		440		3
			St 1						2
			(St 2)						2
100	7.0	94	St 1		>10		450	440	2
			St 1						3
60	7.5	111	St 1 yes		>10		450		1
									4
125	7.3	84	St 1 yes		>100		430	310	4
									4
60	5.9	64	St 1		>50		450	300	2
									2
60	6.3							n.g.u.450	2
30	8.2	118	St 1		10/100		400		2
60	9.4	75	St 1			(440)		280	3
			St 1						

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Maize	0110	46	100			100			550	
Maize	0111	22	100			100			1450	
Maize Maize flour	2633 3501	100	88 100	63		42	5		2000 90	9.8 8.0
Maize gluten	0130		100		33	100	13		150	
Maize gluten (USA)	0131	90	100	38	17	100			215	
Maize gluten Maize gluten (USA)	0132 0133	76 62	100	34 15	18 8	100	9		240 355	
Maize gluten (46 % protein, 25 % starch)	3164	63	28 100	12		6	4		400	9.6
Maize gluten (56 % protein, 20 % starch)	3165	66	24 100	8		4	3		400	10
Maize gluten	3025	59	30 100	14		5	3		420	
Maize gluten	3097	59	30 100	14		5	3		420	7.5
Maize gluten (62 % protein, 14 % starch)	3166	61	22 100	8		5	4		450	12
Maize gluten	3523	5	4 100	4		4	3		>10 <sup>4</sup>	11
Maize gluten feed	3542	38	18 100	7 100		3	1		680	8.5
Maize grits	1256	100	99	66		29 100	19		90	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	n.i.					780		410	3
30 500	4.0	7	St 1 St 1			530		460	3
			(St 2) yes		300/3000				2 2
60 125	6.7 7.7	127 110	St 1 St 1		>10		440	590	1
125	8.1	62	St 1 St 1			(420)		350	1
250	8.0 8.3	64 52	(St 2) St 1 St 1			(420)		480	1
			St 1 St 1						2 2
			St 1 St 1						2 2
			St 1						2 2
			(St 2) St 1						2 2
			(St 2) St 1						2 2
			St 1						2 2
							400	310	2
								410	2
					>30		410		
200			St 1		10/100		400		2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Maize grits film	3502	12	4 100	1					1250	7.0
Maize powder	3074	97	97 100	96		100 94	92		<10 <10 <10	8.0
Maize powder	2642					100			800	14
Maize, crushed	0134	57	100	22					420	
Maize, crushed germs (pellets)	3024	98	67 100	40		23	16		165	9.0 9.0
Maize, crushed germs (pellets, ground)	3221	98	66 100	40		23	16		175	8.9
Maize, crushed germs (pellets, South Africa)	0128		100		10				290	
Maize, crushed germs (USA)	0129	62	100	41	29	100			320	
Malt, black, ground, roasted	3253	99	91 100	75		56	27		59	1.4 1.4 1.4
Malt, high protein fraction	3083	100	99 100	98		40	17		78	11
Malt, fine fraction	3084	100	67 100	24		11	7		210	8.0
Malt	3027	100	67 100	25		11	7		220	
Malt, unground	3028	83	50 100	32		17	10		250	
Malt, high roughage fraction, unground	3082	83	50 100	32		17	10		250	12
Malt (initial product)	3081	84	49 100	32		16	9		255	10
Malt dust	3259					100				6.1

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibil-ity
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	6.0	94	St 1		>10		390	n.g.u.450	5
			(St 2)						3
	n.i.		(St 2)		300/3000				2
			yes						2
30	8.7	117	St 1		>10	580		460	3
30	8.7	117	St 1		>10		440		2
250	8.5	81	St 1			(420)		335	2
250	8.1	50	(St 2)						2
			St 1	(460)		305	3		
			(St 2)						2
							2		
125	8.1	111	St 1		>10				2
			St 1				2		
			(St 2)						2
			St 1				2		
			(St 2)						2
							2		
			St 1						2
			St 1				2		
			St 1						2
			St 1				2		
			St 1			420		300	2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Malt flour	3365	99	97 100	74 100		46 100	22		70	7.2
Malt flour	3448	97	72 100	47		30 100 100	20		130	3.8
Malt germ pellets	3467			100						
Malt germs, ground	3146	89	76 100	58		42	30		92	5.9
Malt grist, bran mill deposits	3111	99	98	96		84 100	66		20	
Malt grist (barley)	2045			97	80		57	45	25	
Malt grist	3207	76	75	61		45	38		82	6.5
Malt grist, finished	3112	48	25	14		10 100	7		530	
Malt grist	3101	33	22 100	17		13 100	9		1200	4.2
Malt grist	3510	25	12 100	7		4 100	2		1300	4.3
Malt residues (from pneumatic conveyer)	3339	96	91	83		78	69		<10	5.5
Maltodextrin	3125					100				
Maltodextrin	4235		100			100				
Maltodextrin	2728								27	
Maltodextrin	3321			100		71 100	40		41	2.0 2.0
Maltodextrin	2860								<63	
Maltodextrin	2708								71	
Maltodextrin	3355		100	71		38 100	24		80	3.2
Maltodextrin	3382	100	98 100	62		45 100 100	17		80	3.8
Maltodextrin	3354	100	97 100	66		30 100	12		91	4.1

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>st</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	7.8	100	St 1						2 2
	8.3	106	St 1		>10		460		2 2
30	8.8	107	St 1		>10		380	310	2 2
60	7.3	95	St 1 St 1		>100 n.ind. >1000		500	300	3 2 2
			(St 2)						
60	7.8 9.0	96 69	St 1 St 1	11	>10	470	380 380	330	
					>10				
60	7.6	83	St 1 St 1		>100		390 390		2 2
			(St 2)						
60	6.7 8.1	97 113	St 1 St 1		>10 >10		380 450	310	2 2
125	7.6	133	St 1		>5		380		4
30	7.1	88	St 1		1000/3000 7/30		380		2
			St 1 St 2 yes yes		10/100 10/30		400		2
30	7.8	105	St 1					melts	3
60	7.8 7.3	128 81	St 1 St 1		>10		400		3 4
30	7.7	112	St 1		4/5		440		
30	7.6	78	St 1		100/1000 n.ind.			melts	3 3
	8.6	120	St 1		>10		400		

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Maltodextrin	3391	100	99	58		21	11		100	3.4
Maltodextrin	2722								108	
Maltodextrin	2740								110	
Maltodextrin	3328	100	96	57		25	12		110	5.5
Maltodextrin	3536	100	97	58		29	20		115	3.3
			100							
Maltodextrin	3306	100	77	38		22	12		160	4.5
Maltodextrin	2648								375	4.6
Malva seed (flakes, China)	0135	20		4					1250	
			100							
Manioc swelling flour	5501		100	72		39	24		83	3.9
						100				3.9
Manioc swelling flour	5500		100	69		36	22		90	3.4
						100				3.4
Masa meal/wax maize starch/maize flour/ potato flakes, filter dust	5274	100	99	77		41	24		80	7.4
			100							5.8
Mashed potato flakes	3150		100	80		24	6	41	23	5.8
Mashed potato flakes, ground	3149		100	66		30	12		93	6.0
						100			98	6.1
Meat and bone meal, dust deposits	0215		100							
						100				
Meat and bone meal	0216		100							
						100				
Meat and bone meal	0857	100	99	92		61	13		58	
			100							
Meat and bone meal, from disc drier, dust deposits	1892	92	90	61		37	7		100	
			100							
Meat and bone meal, from grinder extraction	1252	99	95	52		2			120	
				100		3			95	
Meat and bone meal	1251	81	52	26		4			230	1.7
			100							1.7
				100		6			90	1.7
Meat and bone meal	5264	69	51	26		2			245	1.2
			100							1.2
				100						1.2
Meat and bone meal	5265	66	50	23		1			250	1.2
			100							1.2
				100						1.2

Lower Explos. Limit	Max. Explos. Over- pressure	K <sub>s</sub> Value	Explor- sibility	Limit. Oxy- gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Tempera- ture	Com- bustibil- ity
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15	8.2	96	St 1 yes yes St 1		>5 100/300 30/100 >10 >50	430			2
	7.3	68				410			2 5 5
	7.6	113	St 1		>8 >10 >1000	380			2
250	2.4	4	St 1 (St 2)			640	440		2
100			St 1						3
100			St 1						3
60	9.0	136	St 1 St 1 St 1 St 1		10/100	400			2 2 2
30			St 1 St 1						3 2
30	7.0	49	St 1						2
30			St 1						3
100	4.8	12	St 1 St 1		100/1000	440			3
			St 1		100/1000	440			3
100			St 1						3
100			St 1						3

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Meat and bone meal	5266	66	48 100	21 100		1			255	1.3 1.3 1.3
Meat meal	0214		100	69	52		31	21	62	
Meat meal	3071	84	60 100	21		3	1		215	4.9
Meat meal	3433	75	51 100	15		4	2		245	8.8
Meat meal	2817					100			285	
Meat meal, poultry	3013	84	60 100	21		3	1		220	
Milk feed, mixed, skim milk/fat/whey powder (36:9:20)	0139		100			100				
Milk feed, mixed, skim milk/fat/whey powder (40:12:20)	0138		100			100				
Milk feed, mixed, skim milk/fat/whey powder (55:15:17)	0137		100			100				
Milk feed, mixed, skim milk/fat/whey powder (60:18:12)	0136		100			100				
Milk feed, mixed, whole milk substitute, 20 % fat	0140		100		32		3	1	109	
Milk mixed product, dried	3356		100	99		100	59	5	59	1.9 1.9
Milk powder	4206		100			100				
Milk powder	0141		100	89	35		5		83	
Milk powder	2046			34	18				165	
Milk powder	2047	98		15	8				235	
Milk powder (5 % fat)	3080	95	79 100	51		24	12		120	3.9
Milk powder (24 % fat)	2055			64	14				110	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explo-sibility	Limit. Oxy-gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibil-ity
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30 60	8.5	106	St 1 St 1						3
			St 1 St 1			540		n.g.u.450	2
			St 1						2
			St 1						2
60	5.8	20	St 1 yes yes		>10 <sup>6</sup> 300/1000		460	melts	1 1
			St 1						2
100			St 1						2
100			St 1						2
30			St 1						2
30			St 1						2
	7.7	64	St 1			530		380	2
30 60	7.7	102	St 1 St 1				440	350	3
					>100				3
< 15 60	8.4 5.8	74 28	St 1 St 1		>1000		440	350	3
			St 1						3
60 60	8.1 8.2	90 75	St 1 St 1 St 1		>30 >30	460 450		330 320	
			St 1						2 2
						470		350	

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Milk powder (25 % fat), spray dried	0143		100	92	48		13	6	74	
Milk powder (26 % fat), spray dried	3243		100	69		100	15	2	110	3.1
Milk powder (41 % fat)	2056			58	20	100			118	
Milk powder, high fat, spray dried	0142		100			100				
Milk powder, skim	0144				78		26		49	
Milk powder, skim	3093			100		41	12		70	2.3
Milk powder, skim	2050			86	44		20		83	
Milk powder, skim, 33 % lactose, 25 % protein, 33 % fat	2048			80	44				76	
Milk powder, skim, 50 % lactose, 36 % protein, 1 % fat	2049			86	52		15		71	
Milk powder, skim	3477	99	87	46		10	1		130	4.4
Milk powder, skim, roller dried, 49 % lactose, 36 % protein, 1 % fat	0151	93	100	100	25	9			185	
Milk powder, skim	2996					100			220	
Milk powder, skim, spray dried	2051				100		99	96	10	
Milk powder, skim, spray dried	3143									13 8.5 6.5
Milk powder, skim, spray dried	3142		100	99		60	17		50	2.2
Milk powder, skim, spray dried	0145		100		69		19	8	60	
Milk powder, skim, spray dried	0146			94	55	100	19		67	
Milk powder, skim, spray dried	3285		100	92		42	14		70	2.4
Milk powder, skim, spray dried	0147		100		43	100	14		80	
Milk powder, skim, spray dried	3102		100	76		34	16		81	3.3

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	8.2	58	St 1			530		350	3
			St 1						2
			St 1						2
			(St 2)			470		400	2
15	9.5	108	(St 2)						2
			St 1						2
			St 1						2
			St 1						2
60	6.7	28	St 1		>100	550		370	
						450		350	
30	10.1	145	St 1		>300	530		360	
			yes						3
								400	3
60	7.4	72	St 1		>100		540	410	
60	8.2	66	St 1			570			2
			St 1						
					>1000				
60	9.4	162	St 1			650		280	
30	7.5	54	St 1		>10 <sup>5</sup>		490		
60	8.2	72	St 1						
60	8.0	65	St 1						
30	7.6	138	St 1						
30	7.5	109	St 1		>100		490		
					>30		490		
	8.8	125	St 1			610		340	
			St 1						2
	8.1	117	St 1			530		385	
	7.0	90	St 1		>100		460		2
			St 1						
60	9.0	99	St 1			500		330	
			St 1						3
			St 1						2
			St 1						2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Milk powder, skim, spray dried	0148		100		35		18	11	90	
Milk powder, skim, spray dried	0149			64	29	100	7		99	
Milk powder, skim, spray dried, 30 % marine animal oil, 15 % palm oil, 5 % soya oil	0150		100	49	18	100	5	3	130	
Milk powder, skim, spray dried (instant)	3077	98	76 100	34		8	3		170	2.9
Milk powder, skim/ glycose/fat	2054			90	52	100	14	6	69	
Milk powder, skim/ glycose/fat	2052			52	18				120	
Milk powder, skim/glycose/ fat (29 % carbohydrates, 9 % protein, 59 % fat)	2053			52	17		3		122	
Milk powder, whole	3145									3.3
Milk powder, whole, spray dried	3033		100	95		47	2		65	
Milk powder, whole	0152				61		17		66	
Milk powder, whole, spray dried	3144		100	95		47	2		68	2.8
Milk powder, whole, spray dried	0153		100		30				88	
Milk powder, whole (instant)	3034	97	79 100	18		100 2			165	
Milk powder, whole, spray dried	3098	100	83 100	20		100 2			180	2.4
Milk powder, whole (instant)	3215	97	78 100	18		100 2			190	3.1
Milk substitute, skim milk/fat/soya/sweet whey (61:12:10:12), partially sugared	0840		88 100			100 28 100			115	
Milk substitute, skim milk/fat/soya/sweet whey (61:18:3:13), partially sugared	0841		85 100			19 100			130	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	9.7	122	St 1			540		340	3
125	8.6	130	St 1 St 1						
60	7.4	41	St 1 (St 2)			490		430	3
			St 1						2 2
15	8.4	86	St 1		>30	470		n.g.u.450	
30	7.9	65	St 1		>100	490		n.g.u.450	
30	8.6	74	St 1		>30	430		n.g.u.450	
30	8.0	54	St 1						
30	7.6	98	St 1						
30	7.5	60	St 1				460		
	8.7	67	St 1						
30	7.5	60	St 1				460		
60	8.6	83	St 1			520		330	2
60	7.8	37	St 1 St 1						2
			yes St 1		>10 <sup>5</sup>		460		3 3
60	7.8	37	St 2 St 1				460		2 2
30			yes		>10 <sup>5</sup>				
15			St 1						3
15			St 1						2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Millet grits	3500	78	53 100	36 100		13 100	2		200	10
Mineral drink with glucose	3089	95	71 100	39		17 100	10		165	0.1 0.1 0.1
Mixed feed	2058	61	31						340	
Mixed feed	2057	65	30						360	
Mixed feed, with molasses	2059	58	31						400	
Mixed feed, with molasses	2060	54	29						480	
Monocarboxylic starch	4216					100			34	
Monosodium glutamate	3304	100	96	12		5	5		160	8.4
Mustard flour	3323	80	41	18		9	4		300	9.3
Mustard, crushed	3324	44	18	9		3			600	7.5
Mustard-seed grains, finely crushed	0846	56	45 100	38		29 100	18		300	
<b>Oat</b>	3117	100	99	99		98 100	97		<10 <10 295	
Oat, USA	0108	64	24 100	8		100				
Oatmeal	0114		100			100				
Oatmeal	3400	97	74 100	61 100		49 100	3		71	7.6
Oatmeal	1254	92	70 100	58		47 100	29		85	
Olive pellets, Spanish	3152					100 100				
Orange aroma	3196		100	97		49 100	19		65	3.7
Orange instant drink	3198	98	68 100	10		4 100	2		230	1.4 1.4 1.4
Orange sherbet powder, dust deposits	3300	99	85	60		38 100	10		99	1.6 1.6

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	6.4	62	St 1		>50		370		3
			yes						3
			St 1						2
			St 1						2
			St 1						
			St 1						
125	7.0	44	St 1		30/60				
			yes						
			St 1						
			St 1						
			St 1						
			St 1						
100	4.9	7	St 1		>5·10 <sup>5</sup>				2
			St 1						1
			St 1						1
750	6.0	14	yes		>10	(410)	430	350	3
			St 1						
			St 1						2
			St 1						2
			St 1						2
			St 1						2
100	7.2	43	yes		1000/10000		400	n.g.u.550	
			yes						
100	10.0	74	St 1		10/100		400		3
			St 1						
125			St 1		>1000		470		
			(St 2)						5
			(St 2)						2
			St 1						2
			(St 2)						2
			St 1						
			(St 2)						

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Palm expeller	3518			100						
Paprika	3203	100	94 100	50		21 100	2		125	4.6
Pastry, ground	3362	99	68 100	52		36 100	16		110	8.5
Pastry, ground	3361	99	36 100	8 100		4 100	2		290	9.7
Pastry granulate, ground	5385	47	19 100	6		1 100			560	8.4 4.0
Pastry granulate, ground	5384	7	3 100	1					2300	8.6 5.7
Pea flour	4458					100		41	23	2.2
Pea flour	4353								25	
Pea flour (green pea)	3522					100	60		29	4.3
Pea flour (marrowfat pea)	3487		100 100	86 86		44 44	28 28		70 70	9.2
Pea flour	4457	99	100			100 100			180	4.5
Pea protein (marrowfat pea)	3486	98	96 100	84		70 100	52		30	6.0
Pea starch (marrowfat pea)	3488	100	98 100	90		63 100	30		50	11
Peach powder, hot spray dried (hygroscopic)	0159		100	40	17	100			140	
Peanuts, crushed	3096	1	100			100				6.1
Pepper, black, ground	3379	97	79 100	55 100		34 100	12		115	10



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
					>30				2 2
250 60	4.9 7.7	23 60	St 1 St 1 yes yes		>10 <sup>6</sup> >10		450 400	n.g.u.450 440	2 2 2 2
125	7.4	15	St 1  yes yes		10/100		410		2 2
200 200			St 1 St 1						2 2
200 65	7.6	107	St 1 St 1 yes	15			510	265	2
125	7.6	116	St 1		>50		450	290 310	2 2 1 2
60	7.7	119	St 1		>5 >500 n.ind.		460	330	
75	7.9	85	St 1				520		1 1
60	7.6	119	St 1		>10		470	290 310	2 2
60 60	8.1 8.4	164 81	St 1 St 1		>10		400	440	2 2 2
			St 1 St 1			540			2 2 2
15	6.7	50	St 1 St 1						3 3
15	6.9	52	yes St 1		10/100		460		

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Pepper, white, ground	3376	90	71 100	53 100		31 100	12		120	13
Pepper, ground	5449	21	16 100	12		8 100	4		3000	11 3.5 3.5
Peppermint powder	5247		100 100	65		34 100	25		97	6.8 3.4 3.4
Pig bristle/human hair	3137	96	95 100	94		94 100	94		<10 <10 <10	3.9
Pig feed	3156	47	30 100	20		16 100	13		540	9.5
Potato dumpling flour	3493	81	54 100	38		29 100	16		190	8.8
Potato flakes	3398	52	20 100	6 100		2 100	1		470	7.0
Potato flour	2040			86	53		26	17	65	
Potato granulate	0117		100		74		1		62	
Potato granulate	0118		100		30	100	7		82	
Potato granulate	0119				16	100	1		93	
Potato granulate	3020					100				
Potato granulate	3118		100			7				
Potato granulate	3119					100 24				
Potato granulate (92 % mix)	3120					100 8				
Potato semolina dust, deposits	3451			100		97 100	70		24	9.2
Potato semolina dust	3450	100	99 100	87		46 100	20		69	5.7

Lower Explos. Limit	Max. Explos. Over- pressure	K <sub>St</sub> Value	Explo- sibility	Limit. Oxy- gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Tempera- ture	Com- bustibil- ity
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	6.2	39	St 1						2 2
30	7.2	58	yes St 1		10/100		420		5
30			St 1						4
200			St 1 St 1				490		3 4
60	7.0 5.7	66 27	St 1 St 1				480		2 2
	8.2	89	St 1						2 2
			St 1					330	2 3
60	8.3	68	St 1 yes		>100		450		
125	9.1	69	St 1			480		n.g.u.450	
250	5.7	20	St 1			530		340	4
250	6.0	20	St 1 St 1				510	340	4
250	1.9 6.4 6.4	3 21 16	St 1 St 1 St 1		>10 <sup>5</sup>		500	360	3 2 3
	6.4	21	St 1		>10 <sup>5</sup>		440		
	6.4	22	St 1		>10 <sup>5</sup>		440		
	6.9	35	St 1		>10 <sup>5</sup>		450		
	6.2	17	St 1				440		
	6.8	31	St 1						
15	7.6	80	St 1		>100		490		4
30	8.3	76	St 1		>100		450	310	2 3

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Potato semolina dust	3449	88	54 100	28 100		12 100	5		230	6.9
Potatoes, dried (ground)	3021		100	89		70 100	32		47	
Potatoes, dried (ground)	3147		100	89		70 100	32		48	5.5
Potatoes, dried (blanched, ground)	3148		100	74		33 100	10		84	7.8
Pressure dredging powder, maize/potato starch	1575			100		98	90		<10	
Protein fraction	3252		100	62		21	8		105	10
Protein, animal	0093		100		81		71	56	17	
Protein, milk (with fat)	0094		100	67	28	100			100	
Protein, milk (with fat)	0095		100	23	9	100			195	
Protein, milk, solubilised (89 % protein, 1.5 % fat)	0824		100			100				
Protein, potato	1250	96	90 100	62		23	7		100	
Protein, potato	2699					100	29	7	36 112	9.8
<b>Rape</b>	3423		100							7.5
Rape, extraction chips (2 % oil)	3475	42	19 100	9		5 100	4		580	8.2
Rape, treated (full oil)	3435	35 100	9 100	2		1 100			590	5.3 5.3
Raspberry sherbet powder	3299	96	86 100	70		56 100	43		45	3.0
Recycling mixed feed, pellets (12.5 % fat content)	3481	100								
Red beet powder, hot spray dried, (strongly hygroscopic)	0161		100	64	26	100			108	

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility	
						G-G	BAM			
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ	
60	6.3	31	St 1		>1000		500		3	
	7.2	55	St 1 yes			2				
15	9.3	163	St 1						2	
			St 1						2	
			St 1							2
			St 1							5
			St 1							2
125	8.3	38	St 1			540	300 n.g.u.450	2		
			St 1						2	
30	7.0	39	St 1 (St 2)			440	440		5	
15	7.6	55	St 1 (St 2)			450	440		5	
30			St 1						3	
30			St 1		10/100 >1000		480		2	
125	6.1	30					420	380	5	
								410	2	
			yes			500		2		
			St 1				n.g.u.450	5		
			yes			410		2		
			St 1					2		
			St 1			480	350			
			600	n.g.u.450	3					
			St 1					2		

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Rice	3445	99	92 100	76		57 100 100	14		60	10
Rice dust waste	3444	48	19 100	6		2 100 100	1		530	6.8
Rice feed meal	3446	84	66 100	38		12 100 100	2		170	8.1
Rice film	3503	20	14 100	5 100		1 100			1100	5.3
Rice flour	2066			82	34		8		85	
Rice flour	3130		100	62		24 100			105	
Rice flour	3507	100	72 100	43		25 100	14		150	9.3
Rice flour, with additives	3429	98	73 100	41		20 100	9		150	6.3
Rice gluten	3039	95	86 100	76		56 100	35		52	7.5
Rice ground flour	3358	92	69 100	6		1 100			225	6.6
Rice powder	1261		100	77		27 100	13 39	21	92 35	
Rice semolina	3399	100	94	39 100 100		21 100	12		149	9.9
Rice swelling flour	1259								30	
Rye flour, type 997	3238		100	96		80	68		17	12
Rye flour, type 1150	2067			94	76		58	15	29	
Rye flour, type 1150	2068				78		49	32	34	
Rye leaven, unground	3459	100	99 100	90		71 100 100	52		30	7.0

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	8.6	66	St 1		>5 >100 n.ind.		380	290	5 5
30	6.4	25	St 1		>30 >300 n.ind. >100		390	330	2 2
60	5.2	18	St 1		>10 >300 n.ind.		420	300	3 3
60	5.8	26	St 1					n.g.u.500	4 2
30	6.9	110	St 1 yes		>10	480	370	n.g.u.450	
60	6.7	40	St 1		>100		370		
60	7.4	57	St 1				360		
60	6.7	91	St 1		>10		380	480	2 2
60	8.3	101	St 1 St 1		>100		460	360	2 2
	5.7	17	(St 2) St 1						2 2
30			St 1		10/100		380		3 3 3
30	8.9	84	St 1		10/100 10/100 n.ind.		410	510	2
60	8.1	73	St 1		10/100 >100		460	300	2
30	8.9	79	St 1	13		490		n.g.u.450	
30	8.5	53	St 1		>300	470		n.g.u.450	
	7.7	103	St 1						2 2
15	8.0	138	St 1		>10 >100 n.ind.		460		

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Sauce binder, dark, base paste	3415		100	89		74 100 100	39		40	7.4
Sauce binder, white, base paste	3413		100	89		80 100	37		40	8.0
Sauce binder, white, agglomerated	3414	96	89 100	70		43	17		80	7.1
Sauce binder, dark, agglomerated	3416	95	72 100	16		3			200	7.3
Sauce Hollandaise	2678								13	
Seasoning blend	3494	100	99	18 100		11 100	1		150	
Seasoning powder	3295	72	35	20		3			300	0.4
Seaweed meal	5219		100 100	69		33 100	21		90	7.1 3.8 3.8
Seven corn film	3504	30	14 100	8		5 100	3		900	6.0
Sorbitol	2859								128	
Soya, rubbings from soya beans	0847		99	97		93 100	81		5	
Soya (dust containing oil)	0164				82		41		38	
Soya	0165				25				125	
Soya bean, coarse, de-oiled (approx. 48 % protein)	3247	99	95 100	95		30 100	15		80	5.9
Soya bean, coarse, USA	0168		100	62	34		16		95	
Soya bean, coarse, Brazil	0169	42	100	8		100			580	
Soya bean, coarse	0170	6	100			100			1200	
Soya flakes	0171	3	100			100			>3000	
Soya flour	0166		100		85	100	63	50	20	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	8.3	81	St 1		>10 >10000 n.ind.		450		2
60	7.8	78	St 1		>100		n.i.u.540		2
60	7.4	71	St 1		>10000		490		2
60	6.4	26	St 1		>1000		480		2
					>100			400	2
250	5.2	49	St 1		>100				3
	5.8	41	St 1		>10 <sup>6</sup>		470 530		1
30			St 1						2
60	5.8	86	St 1 yes		>10 100/1000		390	320	2
100	n.i.		St 1						4
60	n.i. 7.2	47	St 1			(460)	420	265 290	2 2
250	8.5	53	St 1		>10000	(450)		290	1
	n.i.		St 1			(440)		435	1
100	n.i.		St 1			750		435	2
100	n.i.		St 1			n.i.u.800		440	2
100	9.2	110	St 1 St 1			620		280	2
100			St 1						2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Soya flour	0167				79		58		28	
Soya flour	1263	100	97	86		74	51		30	
						100	83	46	22	
Soya flour	1264		100	97		75	10		59	
						100	18		42	
Soya protein concentrate, filter waste	3250					100	86		19	4.8
						100	86		19	
Soya protein concentrate (70 % protein)	3248			100		85	55		28	3.4
				100		85	55		28	
						100				
Soya protein concentrate (70 % protein)	3249		100	97		48	12		69	4.6
						100				
Soya/flax	0172				92		59		30	
Spray cream powder	3524	98	74	14		1			200	2.3
			100							
						100				
St John's wort extract	5442	100	98	82		52	27		60	1.3
St John's wort extract	5441	99	94	77		47	25		65	0.8
Starch	3128			100		98			<10	
						100			<10	
Starch	2938								12	10
Starch	4454					100		91	14	8.5
						100		91	14	
Starch	2937								30	12
Starch (with traces of sugar)	3374		100	98		87	69		18	2.4
						100				
Starch, 98 %, rest: soap	3373		100	99		98	96		<10	10
						100			<10	
Starch, 93 %, rest: sugar, fat, protein	3272	100	99	64		28	12		90	7.2
			100			100				
Starch, 15 % sodium nitrate	0179		100	62	45		28	23	88	
						100				
Starch, hydroxypropyl	4034								27	13
Starch, maize	0849						100		<10	
Starch, maize	2071							99	<10	
Starch, maize	2073				100		99	91	<10	
Starch, maize	0182				100		98	94	<10	
Starch, maize	0183				100		98		<10	
Starch, maize	2072				99		98	94	<10	
Starch, maize	0184				99		98	91	<10	
Starch, maize	0185				99		95	90	<10	
Starch, maize	3133			100		99			<10	
						100			<10	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	9.0	117	St 1			(500)		245	
200			St 1		1000/10000		480		2
125	7.8	81	St 1				430	420	2
			St 1		10/100		460	n.g.u.450	2
30	8.3	70	St 1		>10000				2
							450	330	2
60	7.7	70	St 1						2
			yes		>10000				2
30	7.7	67	St 1				450	300	2
			yes		>10000				
	8.0	50	St 1			(490)		260	
									2
30									2
60	8.7	166	St 1		10/100		430		3
60	8.1	100	St 1		10/100		430		3
30	9.3	115	St 1				420		
	10.1	137	St 1		>10		410		
			yes		100/300				
								melts	
65	9.6	190	St 1				390		
			yes		30/300				
			(St 2)						1
30	7.7	110	St 1				410		2
			yes		>10		400		2
			St 1						2
250	9.3	68	St 1				390	300	3
			St 1						
			yes		100/1000				
<60	8.7	130	St 1				400	430	2
60	9.4	198	St 1				460	n.g.u.450	
	10.5	126	St 1						
	10.3	200	St 1				510	n.g.u.450	3
	9.9	194	St 1						
	10.2	128	St 1		>300		520	n.g.u.450	2
30	10.4	155	St 1				480	580	3
60	9.9	141	St 1				470	560	3
60	8.6	108	St 1						
125	7.7	135	St 1		>10		420		
							410		

Product group 1.1.2 Food, fodder		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Starch, maize	3381			100		99	95		<10	11
				100		99	95		<10	
Starch, maize	3168					100	96		<10	12
						100	96		<10	
Starch, maize	3169					100	99		<10	12
						100	99		<10	
Starch, maize	0186				100		98	85	11	
Starch, maize	3340					100	95		11	5.4
Starch, maize	5050					100	94	78	11	7.5
Starch, maize	2898								11	12
Starch, maize	2974								11	13
Starch, maize	2751								11	13
Starch, maize	0187				100		99	88	12	
Starch, maize	1671					100	97	79	13	
Starch, maize	1661					100	91	70	13	
Starch, maize	2074								13	
Starch, maize	0188				99		85	65	15	
Starch, maize	2075				99		91	68	15	
Starch, maize	0189				94		81	60	16	
Starch, maize	0850					100	90		16	
Starch, maize	0190				98		85	60	17	
Starch, maize	4354								17	
Starch, maize	0191				100		80	43	22	
Starch, maize	3167					100	56		30	10
						100	56		30	
Starch, maize	4234					100			32	
Starch, maize	2076				79		45	26	36	
Starch, maize	2971								50	9.4
Starch, maize	0194								170	
Starch, maize, 98 % (traces of tricalcium phosph.)	3275					100	97		<10	9.4
						100	97		<10	
Starch, maize, 93 % (rest: sugar, fat, protein)	3273	100	98	83		58	36			7.5
			100							
						100				
Starch, maize, 90 % (10 % inorganic chemicals)	3276		100	99		98	96		<10	9.3
						100			<10	
Starch, maize, 80 % (10 % potato starch, inor- ganic chemicals with oil)	3279		100	99		96	87		<10	9.2
						100			<10	
Starch, maize, 75 % (15 % swelling starch, 10 % inorganic chemicals)	3277	100	99	94		88	73		12	8.7
			100							
						100				
Starch, maize, 70 % (20 % swelling starch, 10 % inorganic chemicals)	3278	100	99	90		83	76		12	8.0
			100							
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	8.2	107	St 1		10/100 n.ind.		400		2 3
30	8.6	100	St 1						
60	9.2	117	St 1						
60	8.8	95	St 1						
30	8.7	111	St 1						
60	9.5	141	St 1			(430)		n.g.u.490	3
	8.6	143	St 1		>5		380		3
125	9.2	164	St 1						3
			yes		100/300				
			yes		30/300				
			yes		100/300				
30	9.8	161	St 1			450		n.g.u.450	3
60	9.4	174	St 1						3
15	8.6	132	St 1						3
					>100				
60	10.1	169	St 1			460		435	2
60	9.6	120	St 1			480		n.g.u.450	4
60	9.7	158	St 1			520		440	2
200			St 1				400	460	3
	9.3	125	St 1			510		n.g.u.450	3
			yes	9					
60	10.6	143	St 1			440		420	3
60	8.7	118	St 1						
60	8.8	104	St 1						
	8.1	148	St 1		100/300				
	9.8	103	St 1			480		melts	
			yes		100/300				
	8.5	143	St 1			430		400	2
			(St 2)						2
			(St 2)						
			St 1						5
									5
			(St 2)						2
			St 1						
			St 1						3
			St 1						
			St 1						2
			St 1						2
			St 1						2
			St 1						2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Starch, maize, modified	3519					100	96		<10	4.4
Starch, maize, modified	3520		100	99		95	68		20	4.9
Starch, maize, modified	3387			100		95	26		38	13
Starch, maize, modified	3521		100			100				
Starch, maize, modified	3418	87	47 100	20		8	2		255	4.9
Starch, maize, oxidised	3234					100	100			7.9
Starch, maize, powder	3181	99	99 100	98		97	94		<10	6.3
Starch, maize, powder	3180					100	22		<10	8.2
Starch, maize, presolubilised	0193				29	100	15		40	
Starch, maize, solubilised (partially sugared)	0192		100	55	30	100	15	10	112	
Starch, maize, with oil	3527					100	98		<10	11
Starch, maize, with oil	3528		100 100	93		100	98		<10	7.9
Starch, maize/potato (1:1)	3426	10	4 100	3		2	1		2000	12
Starch, maize/sugar, white flour for fruit gum	0852	47	36 100	36		36	35		600	
Starch, maize/sugar, white flour for liquorice	0851			100		99	97		1	
Starch, mixed starch, oxidised	3232	100	95 100	60		35	20		100	2.7
Starch, mixed starch, with oxidised product	3233					100	98		<10	8.6
Starch, modified	2925								47	
Starch, modified	2922								96	
Starch, modified	2923								155	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
125	7.6	159	St 1		>5		390		2
								310	2
60	8.2	167	St 1		>10		410		
60	7.8	60	St 1						2
60	7.8	64	St 1		10/100		410		
					100/1000 n.ind.		410		
60	7.5	73	St 1		>100		410	530	2
								390	3
30	7.5	66	St 1		>30				
			yes				400		
			(St 2)						2
			(St 2)						2
			(St 2)						2
			(St 2)						2
60	9.3	190	St 1			480		555	2
			(St 2)						5
60	9.3	93	St 1			470		n.g.u.450	
			(St 2)						2
			St 1						
			(St 2)				380		2
			(St 2)					n.g.u.500	5
			(St 2)					n.g.u.500	2
			(St 2)				380	n.g.u.500	5
								410	2
60	7.6	41	St 1		>100		400		2
								390	2
<60	8.8	154	St 1				390		
<60	8.8	147	St 1				390	420	2
			St 1						2
			St 1						2
			(St 2)						2
			yes		30/100				
			yes		30/300				
			yes		100/300				

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Starch, modified	1626	92	70 100	36		11 100	5		170	
Starch, modified	2921								170	
Starch, modified	2924								205	
Starch, native	0174						100	83	<10	
Starch, native	3211			100		99 100	60		26	14
Starch, native	0177				62		28	6	49	
Starch, native	0178				68		26	12	52	
Starch, native, 95 %	0176		100							
Starch, native, 90 %	0175				100		97	15	23	
			100				74	64	11	
Starch, phosphate	0196					100	85	70	12	
Starch, potato	3290					100	99		<10	12
Starch, potato	3132			100		96 100			18	
Starch, potato	3041			100		96 100			20	
Starch, potato	3289			100		99	69		22	8.7
				100		99	69		22	
Starch, potato	0180				100		65	20	28	
Starch, potato	2700					100			29	19
Starch, potato	3288			100		98 100	52		30	12
Starch, potato	0848					100	57		30	
Starch, potato	1267								31	
Starch, potato	2070				100		50	17	32	
Starch, potato	0181				100		55	16	33	
Starch, potato	3403			100		100	99	47	34	9.9
Starch, potato	3380			100		100	96	36	35	16
Starch, potato	3425	49	19 100	8		5	4		520	15
Starch, potato	3427	24	17 100	12		10	8		1500	12
				100						



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			St 1 yes		100/300				2
60	9.7	166	St 1 St 1 St 1		100/300	520		n.g.u.440	3 2
1250	8.2 8.7	86 55	St 1 St 1			350		345	3
60	9.2	153	St 1			390		470	3
125	9.2	85	St 1			440		290	2
15	10.3	228	St 1 St 2 St 1			540		290	2 2
60	7.2	36	St 1				430		
30	7.8	43	St 1		>1000		420		
30	7.8	43	St 1 St 1		>1000		420		2 2
	8.2	116	St 1 St 1 St 1		>1000	500		n.g.u.450	2
200			St 1 St 1 St 1 yes		1000/10000		410	450	2
60	9.4 8.6	89 91	St 1 St 1 St 1		>3000	520 530		n.g.u.450 570	2 2
15	7.0	48	St 1						2
15	7.0	53	St 1		100/1000		420		2 2
60	8.4	53	St 1		>1000		450	390	2 2
60	6.5	19	St 1 yes		>10 <sup>6</sup>		500		2 2

Product group 1.1.2 Food, fodder		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Starch, potato (10 % calcium chloride)	3428	100	99 100	90		62	34		47	9.8
Starch, potato, and other components (sack filling)	1792			100		100 97 100	57		29	
Starch, potato, binder	3,175	99	91 100	49		7	1		130	4.0
Starch, potato, mixed product	3189	100	97 100	83		100 67	33		48	7.1
Starch, potato, native	3357		100	98		94 100	48		33	18
Starch, rice	5051		100	98		96	88		<10	5.5
Starch, rice	2077				95		80	68	10	
Starch, rice	0200				86		62	52	18	
			100			100				
Starch, rice	0201				100		80	55	18	
						100				
Starch, rice	2078				99		74	54	18	
Starch, swelling	0197				15				149	
Starch, swelling	0198				25		10		155	
Starch, swelling	0199			17	5				195	
Starch, swelling, maize	3284	100	94 100	54		22	12		120	4.6
						100				
Starch, swelling, maize	0195				16		7	3	185	
Starch, swelling, maize, 98 % (2 % inorganic chemicals)	3281					100	98		<10	9.6
Starch, swelling, maize, with hydrogen peroxide	3282	100	95 100	54		27	15		115	3.6
						100				
Starch, swelling, maize, with hydrogen peroxide and chlorine bleach liquor	3283	100	89 100	35		16	9		170	4.0
						100				
Starch, swelling, maize, with traces of emulsifiers	3280	100	99 100	84		53	29		60	4.2
						100				
Starch, swelling, rice	2868								95	9.1
Starch, swelling, wheat	2869								45	5.2
Starch, wax maize	3397			100		95 100 100	82		11	12
						100				
Starch, wax maize	3162					100	80		22	12
Starch, wheat	3402			100		99	95		<10	11

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	8.4	90	St 1		>100		440		2
30			St 1						2
125	7.2	38	St 1		>10		420		3
60	7.8	54	St 1		>100		420		2
			St 1				470		2
			St 1						2
60	10.0	220	St 2						3
	9.6	120	St 1			470		n.g.u.450	
	10.0	190	St 1			530		420	
60	9.2	101	(St 2)						3
			St 1			550		n.g.u.450	
			(St 2)						3
			yes		>30	470		390	
60	8.5	50	St 1					n.g.u.390	
	8.3	97	St 1						
	4.8	13	St 1			(530)		n.g.u.390	
			St 1						5
			(St 2)						5
	8.5	85	St 1						
			(St 2)						2
			St 1						5
			(St 2)						5
			St 1						3
			(St 2)						5
			St 1						5
			(St 2)						5
			yes		100/300				
			yes		30/100				
60	9.1	109	St 1		10/100		450	460	2
			(St 2)		10/100 n.ind.				
	8.2	106	St 1						2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Starch, wheat	1719		100	99		93	75		13	11
Starch, wheat	2905								15	
Starch, wheat	3231					100	91		15	7.0
Starch, wheat	3525			100		99	81		17	9.6
				100		99	81		17	
Starch, wheat	0202						84	50	20	
Starch, wheat	0203				85		66	46	22	
			100							
Starch, wheat	0204				89		59	36	27	
			100							
Starch, wheat	1269	100	99	94		100	76	53	30	
						100	82	40	22	
Starch, wheat A	3229			100		97	87		<10	7.0
				100		97	87		<10	
						100			<10	
Starch, wheat B	3230	100	99	81		40	11		73	1.8
						100				1.8
Starch, wheat, 90 % (10 % inorganic chemicals, traces of oil)	3274		100	99		96	73		20	10
						100				
Starch derivative	2079				82		63	39	24	
			100							
Starch derivative	1625	100	96	67		54	22		61	
						100				
Starch sucrification product	1258		100	92		50	18		63	
						100	54	19	30	
Starch sucrification product	1257	100	88	52		29	20		115	
			100							
Starch syrup	0205				39		100	72	40	24
						100	72	40	24	
			100				11		89	
						100				
Sugar (silo dust removal)	5183					99	98	92	< 10	0.4
						99	97	64	17	0.4
						99	97	64	17	0.4
Sugar (silo dust removal)	1272					100	84	66	16	
						100	84	66	16	
Sugar, beet	0233				76		55	35	29	
			100							
Starch	0229				79		52	40	30	
			100							
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	9.1	156	St 1 yes (St 2)		10/30				3
115	8.2	145	St 1				380	530	2
60	9.8	132	St 1			500		535	3
30	9.9	115	St 1			480		n.g.u.450	3
			(St 2)						3
	10.0	135	St 1			520		n.g.u.450	3
			(St 2)						3
30			St 1 (St 2)		10/100		380		2
			(St 2)						3
			St 1						3
			St 1						2
			(St 2)						
60	9.2	80	St 1	14	>30	480		280	5
100			St 1						2
60	9.2	123	St 1		10/100		400	510	3
60	9.3	159	St 1		<10		400		5
60	8.3	72	St 1		100/1000 n.ind.	520		420	2
125	8.5	116	St 1 St 1 yes		< 5		350	430	2(5)
125	8.2	99	St 1		5/10 n.ind.		360	450	2(3)
60	8.2	59	St 1		<10	470		melts	2(5)
			(St 2)		10/100 n.ind.				
	8.5	138	St 1			480		melts	2(3)
100			(St 2)						

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Sugar	2099				84		50	20	32	
Sugar	5480		100	98		77	49		34	0.2
Sugar (sieve station dust removal)	1273	99	90 100	62		36	34		72	
						100	81	56	19	
						100	81	56	19	
Sugar (separator and dispatch area dust removal)	5097	99	89 100	69		39	23		80	0.2
										0.2
						100	54	31	30	0.2
						100	54	31	30	0.2
Sugar	2601								110	
									110	
Sugar (from extractor filter drier)	5391	99	98 100	51		23	20		120	0.1
										0.1
						100	56	22	29	0.1
						100	56	22	29	0.1
Sugar (from extractor filter drier)	5392	100	98 100	44		21	14		135	0.2
										0.2
						100	66	35	25	0.2
Sugar	3085	100	97 100	44		20	12		135	
						100				
Sugar, from fluid bed drier/cooler	5502	100	97 100	43		14	7		150	0.2
										0.2
						100	39	14	36	0.2
Sugar	5184	100	46	10		5	3		275	0.1
Sugar	5182	95	41	17		7	5		290	0.1
Sugar	3134	100	42	3		2			300	
						100				
Sugar	3103	91	18	1		1			350	
						100				
Sugar	5179	69 77	27 45	3 21		1 12	1 8		380 300	0.1 0.1
Sugar	5181	8 62	3 45	1 29					790 300	0.1 0.1
Sugar	5180	3 61	2 45		30				1250 320	0.1 0.1
Sugar, icing	1274								12 12	
Sugar, icing	2103				88		70	52	19	
Sugar, icing	3178			100		89	57		27	0.1
						100				0.1
Sugar, icing	3179			100		88	46		35	0.1
						100				0.1

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	9.0	123	St 1			480		n.g.u.450	
60	8.2	90	St 1		10/30		360		2(5)
60	8.0	108	St 1					420	2(3)
			St 1		<10 <10 n.ind.		360		
60	8.3	135	St 1					460	2(3)
60	9.1	132	St 1		<10 <10 n.ind. >1000 >100 n.ind. 10/100		360		
			yes						2(3)
60	8.8	126	St 1		<10 100/1000 n.ind. 10/100		350		
			yes						2(3)
60	9.1	140	St 1 St 1 (St 2)		10/100		350		2 2
30			St 1		30/100		350		2(5)
750	3.9	11	St 1		10 <sup>5</sup> /10 <sup>6</sup>				
500	4.7	16	St 1		<10 <sup>6</sup>				
			yes				360 350 330 310		
			yes		>5				
500	n.i. 4.0	12	St 1		>10 <sup>6</sup>				
750	n.i. 4.2	16	St 1		>10 <sup>6</sup>				
750	n.i. 4.1	18	St 1		<2·10 <sup>6</sup> <10 10/100 n.ind. >30				
			yes (St 2) (St 2) (St 2) (St 2)			470		n.g.u.450	2 2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Sugar, icing	3368	100	99 100	93		80	11		45	0.0 0.0 0.0
Sugar, icing	5375	100	96 100	78		57	39		48	0.2 0.2 0.2
Sugar, icing	3372		100	78		26 100	11		90	6.4
Sugar beet abrasion	3316	97	87 100	65		35	17		90	9.4
Sugar beet chips	0236				89	100	58	35	27	
Sugar beet chips	3347	76	50 100	28		17	12		250	7.4
Sugar beet pellets (loading)	5562	91	87 100	78		56	34		50	12 3.7
Sugar beet pellets	5503	95	82 100	54		28	13	29	27	3.7
Sugar, crystal, ground (euro standard 2)	3242		100	97		84 100	63	14	35 22	1.8 1.8
Sugar, crystal (RF)	3301	66	13	2		1			450	
Sugar, crystal	3401	4	2 100	1		1			900	
Sugar, pectin	0232				95	100				
Sugar/talcum (40:60)	3138	100	99	99		85	78	57	17 11	0.0
Sugar/talcum (40:60)	3050	100	99 100	94		85	78		12	
Sunflower abrasion	3163	83	33 100	14		8	7		350	14
Sunflower seed expeller	0173	59		16	10	100			420	
Sunflower seed pellets	3160		100			100				
Sunflower seed pellets	3161		100			100				



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			yes		10/100		430		2 2
100			(St 2)						2(3)
			St 1 St 1				410		2 3 4
	9.4	165	St 1 St 1			460		290	4
100 60	7.2	31	St 1 St 1				500		4 4 4
125	4.5	16	yes St 1		>10 <sup>5</sup> >10 <sup>6</sup>			270	4
125	8.4	87	St 1		>1000		400		4
200 60	8.3	109	St 1 St 1 (St 2)		>1000 >10		410 380 380		2
60	5.6	42	St 1		>100		380	melts	2
30	7.3 9.1	69 99	St 1 St 1 St 1		>5		370	melts	2 2
						(410)		380	2
			St 1 St 1						2
	6.4	22	St 1 St 1						4 4
125	7.9	44	St 1 St 1			(470)		350	2
			St 1						2
			yes				430		2
			yes				440		2

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Sweetener mixture for tablet pressing	3188	99	71 100	23		11 100	2		180	1.0 1.0 1.0
Swelling flour	0160		100			100				
Swelling flour	3366	100	96 100	71 100		42 100	28		78	5.3
Tapioca	0208				95		80	68	12	
Tapioca	3460	97	96	92		79	64		20	9.7
Tapioca	0209		100		84		73	45	22	
Tapioca	0210		100		61	100	42		44	
Tea, black	0211		100	64	48	100	26	16	76	
Tea, dust deposits	0853	100	96 100	57		24	10		110	
Tea SM (deposits)	3155	99	72	21		4 100			200	1.5 1.5
Tea, MF machine tea	3197	99	57 100	9		4 100	3		220	0.2 0.2 0.2
Tea	1710	61	31 100	20		13	10		440	
Tea, AM	3154	36	5 100	2		1 100			600	4.7
Tea, fennel (herbal drugs and etheral oil)	0842	100	97 100	72		17 100	9		115	
Tea, fennel fruits	0843	28	23 100	17		11 100	5		3500	
Tea, hawthorn (leaves with flowers)	1674	9	4 100	2		2 100	1		2000	
Tea, hawthorn	1630	6	3 100	2		1 100	1		9000	
Tea, lemon	2615								150	3.2

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility	
						G-G	BAM			
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ	
100 30	7.4	92	St 1		>10				2	
			St 1						2	
			St 1						2	
			St 1						3	
			yes St 1						3	
		101					460			
40	9.9	97	St 1		>100			290	3	
125	7.8	110	St 1						(450)	4
	9.4	62	St 1							
125	9.0	53	St 1						(450)	4
			St 1							
125	8.2	59	St 1		510		300	4		
			St 1						4	
125	8.0	27	St 1				300		4	
30	9.1	104	St 1						3	
			St 1						5	
	n.i.		(St 2)							
60	5.8	11	St 1				510		4	
									2	
30	8.1	68	St 1		>1000		510		3	
									2	
100			St 1							
									4	
200	n.i.		St 1							
									4	
			St 1						4	
			St 1		>1000				4	

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.-No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Tea, misletoe	0854		100	95		74 100	38		42	
Tea, peppermint leaves	0844	59	31 100	8		6 100	4		450	
Tea powder, spray dried	0212		100			100				
Tea, tansy	0855		100	95		72 100	43		39	
Tobacco (grinding)	0206		100			100				
Tobacco (mill)	1729		100	99		98 100	92		<10 <10	
Tobacco (dross, pure leaf surface)	1730			100		81 100	50		32	
Tobacco	2080			81	64		29		49	
Tobacco (powder)	3484	98	91 100	78		58	29		52	9.2
Tobacco	3463		100 100	99		100 64	12		53	10
Tobacco (cigarette manufacture)	0207			77	53		24		65	
Tobacco (ribs and tape waste)	1270	99	89 100	67		100 47	28		79	
Tobacco	4450	100				100 39	67	35 3	26 80	
Tobacco	3343	97	81 100	51		100 21	6		120	5.0
Tobacco (meal)	3370	91	67 100	32		100 9	5		175	9.1
Tobacco	4451					100 12		2	195	11
Tobacco	2081	87		35	23	100			200	
Tobacco	3462	94	70 100	25		5	2		200	10
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
200			St 1						4
200			St 1						4
30			St 1						2
100			St 1						4
30			St 1						4
30			St 1				440		4
30			St 1				440		4
30	4.8	12	St 1			470		280	4
250	7.2	70	St 1		>10 <sup>5</sup>		500	270	4
60	7.0 n.i.	61	St 1		>10 <sup>5</sup>		530	320 310	4
30			St 1			450		300	4
30			St 1		>10000			290	4
95			St 1				410 510	300	4
			St 1						4
			St 1					n.g.u.540	4
			St 1				n.i.u.540		4
74	n.i.		yes			430 450	390	325	
								300	
								320	3
	7.0	62	St 1		>10 <sup>5</sup>		n.i.u.550	320	4

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Tobacco (deposits)	3456	80	50 100	20		8	2		250	11
Tobacco	3341	80	45 100	21		100 9	4		280	7.1
Tobacco	4449	86	100			100 4		3	350	7.2
Tobacco (deposits)	3455	58	40 100	28		100 24	20		390	27
Tobacco	3516	48	47 100	24		100 14	6		510	8.0
Tobacco (with active charcoal)	3344	89	64 100	43		100 26	12		150	6.9
Tobacco (with active charcoal)	3342	80	44 100	16		100 6	2		280	6.8
Tobacco, denatured	3042	73	58 100	38		100 24	9		195	
Tobacco, denatured	3222	73	58 100	38		100 24	9		200	6.8
Tomato powder, hot spray dried (strongly hygroscopic)	0220		100	35	10	100			145	
Tomato powder, cold spray dried (strongly hygroscopic)	0221	99	100	6	1	100			200	
Tryptophan	2670								<10	
Tryptophan	2669								53	
Tryptophan	2672								53	
<b>V</b> egetables, dry vegetable grinding	0102		100			100				
<b>W</b> afer dust	3544	74	26 100	6 100					370	5.0

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility	
						G-G	BAM			
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ	
75	5.7	70	St 1		>10000		500	310	4 4	
			St 1					4 4		
			St 1					4 4		
			St 1					4 4		
			yes St 1					420	300	4 4
			St 1 St 1					310	4 4	
125	5.7	70	St 1		>10000		530		4 4	
			St 1						4 4	
			St 1						4 4	
			St 1						520	3 4
			St 1							4
			St 1							3 4
30	n.i.		St 1				600	440	2	
			St 1					640	440	2
30			St 1						2	
									2	
			St 1						2	
									2	
60	5.8	63	St 1 yes		>30		400	n.g.u.500	2 2	

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Wafer dust	3240	51	30 100	11		2			450	3.0
Wafer flour, fine	3267	77	57 100	30		100 12	4		220	7.9
Wafer flour, coarse	3268	56	39 100	19		100 6	2		350	7.0
Wheat	3100					100				
Wheat	3466	91	89 100	84		78	70		<10 <10 <10	7.9
Wheat (78 %)	3375	100	99 100	94		100 88	84		<10 <10 <10	11
Wheat abrasion	3452			100		99 100	96		<10 <10	9.0
Wheat abrasion	3322	98	96	92		85	72		12	14
Wheat abrasion	3457	68 100	64 100	58		49	37		70	9.7 9.7
Wheat, Canada	0112		100		48	100 100	30		80	
Wheat, dust from aspirator	3076	100	81 100	50		100 32	25		125	10
Wheat, dust from delivery	3224	50	43 100	34		100 30	25		500	11
Wheat, dust from aspirator	3075	37	15 100	12		100 11	10		800	8.0
Wheat, Argentinian (0.25 l oil/t)	3332	81	71	58		100 44	30		90	11
Wheat, Argentinian (0.125 l oil/t)	3331	77	60	43		32	26		175	11
Wheat, Argentinian (without oil)	3330	80	74	66		58	50		32	10



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility	
						G-G	BAM			
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ	
30	7.5	120	St 1		>10 >100 n.ind.				2	
			St 1						3	
			St 1						2	
			(St 2)						5	
			St 1						2	
			(St 2)						2	
				350						4
									290	4
				490						
										2
30	7.2	106	St 1		>100				3	
			(St 2)						3	
			yes						4	
				470						4
									270	
				400						4
										3
										4
60	9.3	112	St 1		>30 >30 n.ind.		(370)	290	3	
			St 1						3	
			(St 2)						3	
			(St 2)						2	
			St 1						2	
			St 1						2	
			St 1						3	
			(St 2)						2	
			St 1						2	
			7.8	81					St 1	
7.7	86	St 1		>100			420	2		
7.7	116	St 1		>10			430	2		

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Wheat, crushed	3506	89	65 100	48		34	23		130	8.4
Wheat, soft	2089	100	50			100			250	
Wheat, winter	3115		100	98		91	75		14	
Wheat, winter	3114	10	9 100	8		7	5		>10 <sup>4</sup>	
Wheat bran	0228		100			100				
Wheat bran	2907					100			275	
Wheat bran	3227	67	30 100	14		12	10		380	12
Wheat bran	3219	48	21 100	12		9	6		530	12
Wheat bran	3389	44	18 100	11		9	4		600	11
Wheat bran	2098	8				100			880	
Wheat bran	3430	8	6 100	5		5	4		>10 <sup>4</sup>	9.5
Wheat bran pellets	3124					100				
Wheat bran pellets	3122					100				
Wheat bran pellets	3123					100				
Wheat bran pellets	3121					100				
Wheat feed	3226	80	48 100	28		17	6		260	4.6
Wheat feed	2908					100			330	
Wheat feed	3225	73	25 100	7		4	3		370	8.8
Wheat flour	0222		100		71		51	45	30	
Wheat flour	0223				71				43	
Wheat flour	2091						42		50	
Wheat flour	2092			97	60		32	25	57	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explo-sibility	Limit. Oxy-gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibil-ity
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
125	7.5 n.i.	83	St 1  yes  yes		>10	570	400 420 380 380	310 n.g.u.450	2 2  2 2 3
100			(St 2) St 1 (St 2) St 1		>1000				2 2 2 2
30	5.1	21	St 1 St 1  yes		10/100 1000/10000 n.ind.			330	2 2
30	8.3 n.i.	123	St 1			480	410	450	2 2
30	8.4	94	St 1 yes yes yes yes St 1		>30		400 360 380 380 390	290	2 2
			(St 2) St 1		>1000				2 2
125	8.8	70	(St 2) St 1			480		n.g.u.450	2
	7.0	31	St 1 St 1						
60	8.3	87	St 1		>300	430		n.g.u.450	

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Wheat flour	3127		100	90		48 100			65	3.4
Wheat flour, type 550	3424	100	99 100	90		54	30		54	13
Wheat flour, type 550	0859		100	91		100 54 100	26		56	
Wheat flour, type 550	2093				60		34	25	56	
Wheat flour, type 550	2094			91	59		31		60	
Wheat flour, type 550	3364		100	94 100		53	11		60	5.2
Wheat flour, type 550	2095			77	49	100	33	29	75	
Wheat flour, type 1600	3239			100		73	16		52	12
Wheat flour/icing sugar {50:50}	2096			93	79		56	37	27	
Wheat gluten	3228		100	99		90 100	56		28	5.7
Wheat gluten (vital)	3087		100	97		70 100	48		35	4.1
Wheat gluten	3244	100	99	95		69	35		43	5.4
Wheat gluten	2204				78		28	13	48	
Wheat gluten	2906								53	
Wheat gluten	2867								61	5.5
Wheat gluten	0873		100	91		44 100	16		68	
Wheat gluten	1271			100	81	45 100	26 51	30	70 30	
Wheat gluten	3094	70	50 100	37		24 100	16 5		250 600	6.7 5.4
Wheat gluten, from drier	3090	41	14 100	6		5 100	3			
Wheat gluten	2205	33	9						850	
Wheat grits, bran	2097	98	50	14					200	
Wheat haze, soft	0224				14		12		158	
Wheat haze,	0225	96		11	4				285	
Wheat powder	2870					100			28	5.3
Wheat powder	2866								49	12
Wheat semolina, soft	2090	100		6					130	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	7.4 6.9	56 77	St 1 St 1		>100		410 400	470	2 2
60	6.9	55	yes St 1 St 1				410		2
60	7.4 8.2	42 47	St 1 St 1	11	>300	470 460		n.g.u.450 n.g.u.450	
30	8.3	94	St 1 yes		>10				2
30	8.4	98	St 1				390		
60	8.4	50	St 1			480		n.g.u.450	
60	7.3	59	St 1		>100		460		2
60	9.8	118	St 1			420		n.g.u.450	
			St 1 St 1 St 1						2 2 2
60	8.1	74	(St 2) St 1		>10				2
30	8.7	105	St 1 yes yes		100/300 100/300	540		melts	
30	8.0	79	St 1						2
30			St 1 St 1		10/100		440		2 2 2
			(St 2) St 1						2 2
	n.i. n.i.		St 1			560 490		melts n.g.u.450	
125	8.3 8.2	41 31	St 1 St 1			550		n.g.u.450	2
	7.8	31	St 1 yes yes St 1		3/30 30/300	500		n.g.u.450	

Product group 1.1.2 Food, fodder		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Wheat semolina	0226	98	100	6	3				370	
Wheat semolina, hard	0227	95		2		100			400	
Wheat semolina film	3505	62	61 100	60		60			<10 <10 <10 <10	7.5
Wheat swelling flour	3106		100	86		52 100	32		60	7.1
Wheat swelling flour	5218	100	96 100	80		41	20		67	5.0 4.1 4.1
Wheat swelling flour (lactate)	1260	99	84 100	47		24	11		130	5.3 2.0 2.0
Wheat wastes (cleaning)	3079	75	51 100	36		26	20		225	9.2
Wheatgerm (flour)	5126	96	79 100	48		26	13		130	2.1 3.3
Wheatgerm	3338	29	18 100	12		8	4	4	38 1500	3.3 12
Whey fat emulsifier	2062	62		7	2	100			400	
Whey powder	3478	100	97 100	68		4	1		105	2.0 2.0
Whey powder (pH 5.18)	3539	97	80 100	50		24	7		125	1.3 1.3
Whey powder (pH 5.45)	3538	96	78 100	45		15			140	1.3 1.1 1.1 1.1
Whey powder	0154				20				152	
Whey powder	0155	40		16	8				700	
Whey powder (50 % lactose, 30 % salt, 20 % albumin)	0158				44				79	
Whey powder, deminera- lised (33 % fat, 30 % lac- tose, 20 % albumin)	2064			81	37		8		85	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	n.i.		St 1			670		n.g.u.450	2
60	8.6	93	St 1 yes St 1 (St 2)		>10		390	n.g.u.450	5 3
30	8.4 8.0	131 92	St 1 St 1						2 3
30			St 1 St 1 (St 2)		10/100		400	310	3 2 2
125	7.7	115	St 1		10/100			390	2 2 2
	7.2	38	St 1 St 1		>30	450	420	420	5 3 3
60	6.7	53	St 1		>100		540	420	2 2
125	4.6	46	St 1		>500		470	melts	2 2
250 125 250	4.7 7.4 5.8 n.i.	46 41 27	St 1 St 1 St 1		>1000	(490)	470	melts 410 395	2 2
	8.0	91	St 1		>100	530		400	

<b>Product group 1.1.2 Food, fodder</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Whey powder, partially de- sugarised, spray dried	0157		100			100				
Whey powder, partially de- sugarised	2063			47	20				130	
Whey powder, sweet, spray dried, from cyclone	0156		100		73		35	13	41	
Whey powder, sweet spray dried, (with instant properties)	3078	100	96 100	59		6 100			115	2.3
Whey powder, sweet	2065	99		39	7				148	
Whey/sulphonated animal fat (50:50)	2061	98		6	2				330	
Wholemeal	3001	48	38	33		30 100	26		580	
<b>Yeast,</b> foodstuff	5124		100	96		70 100	30 54	26	45 30	2.8 2.8
Yeast powder	3296	95	82	57		27	5		115	3.3
Yeast powder	3458	75	74 100	20		1			200	4.1
				100		100				



Explos. Lower Limit	Explos. Max. Over-pressure	$R_{st}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	G-G Ignition Temperature	G-G BAM Ignition Temperature	Glowing Temperature	Combustibility
g/m <sup>3</sup>	bar	bar m/s		% by vol.	ml	°C	°C	°C	BZ
30	125	7.6	39	St 1	540	540	380	320	2
125	9.8	9.8	140	St 1	560	560	n.g.u.450	320	2
60	8.1	8.1	110	St 1	510	510	380	420	2
30	6.0	6.0	65	St 1	10/100	>10°	420 n.i.u.540	420	2
60	6.2	6.2	40	St 1	>100	>100	450	450	1

<b>Product group 1.1.3 Coal, coal products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Acetylene coke	2717								15	0.5
Activated carbon	3353	94	88 100	81		72	60		15	28
Activated carbon	2104				99	100	80	55	18	
Activated carbon	2613								<20	2.7
Activated carbon	2662								<20	4.1
Activated carbon	0237				88		64		22	
Activated carbon	0238				76		55	39	28	
Activated carbon	0239		100		86		56		29	
Activated carbon	0240		100							
Activated carbon	0241				68		40		43	8.0
Activated carbon	0241			84	65		38		46	16
Activated carbon	2105	58	5						450	
Activated carbon/carbon	3336						100			4.5
Activated carbon/carbon	3335	85	83	81		80	79		<10	7.3
Anthracite/petroleum coke (10:90)	4003								52	0.8
<b>Carbon</b>	5177	85	43 100	32		14	10		280	0.4
Carbon	5178	60	25 100	16		100 11	6		460	0.4 0.8 0.8
Carbon (approx 99 %)	5232	98	97	97		100 97	92		<10	0.8
Carbon (approx 99 %)	5233	100	96	86		100 68	50		<10 32	0.8 0.5
Carbon (approx. 99 %), oil coke calcination unit	5305		100	99		100 76	40		40	0.5 0.1
Carbon (approx. 90 %)	1161			100		95 100	80		17	
Carbon (approx. 88 %)	5234	99	99	96		100 93	92		<10	0.3
Carbon (approx. 85 %)	5235	98	98	96		100 94	91		<10	0.3 1.8
Carbon, amorphous	5105	65	31 100	16		100 10	7		<10 370	1.8 0.7
Carbon foam	5509	95	84 100	64		100 50	37		63	0.7 0.4 0.4
						100				0.4

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>st</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			St 1		>1000				1
30	7.3	61	St 1		>10 <sup>5</sup>		n.i.u.540		1
60	8.8	44	St 1		>1000	790		n.g.u.450	
					>1000				
60	n.i. 7.7	44	St 1			670 700		335 n.g.u.450	
60	8.0	53	St 1			660		400	3
125	8.4	70	St 1			(630)			3
125	8.4	67	St 1			(630)			
	n.i.					n.i.u.850		n.g.u.450	
	8.0	79	St 1		>10 <sup>5</sup>		n.i.u.550		3
	7.8	76	St 1		>10 <sup>5</sup>		n.i.u.550		4
					>1000				
60	8.0	151	St 1						2
30			St 1						2
60	8.0	110	St 1						2
125	7.5	107	St 1						2
	n.i.								2
200			St 1						2
	n.i.								2
	n.i.								2
30			St 1						2
250	7.1	43	St 1						1

<b>Product group 1.1.3 Coal, coal products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Carbon foam	5510	81	56 100	37		19	11		200	0.7 0.7 0.7
Charcoal	0254				99		88	67	14	
Charcoal	2162				95		85	58	19	
Charcoal	2163			80	66		43	34	42	
Charcoal	2164	57		38	25		17	10	320	
Charcoal	2165	39							>500	
Charcoal	2166	36							>500	
Charcoal, beech	0255		100			100				
Charcoal, poplar	0256		100			100				
Charcoal/peat coke	0865		93 100			55			55	
Coal (from mill drier)	0867			99		96	88		5	
Coal	3508	99	94 100	92		100	92	87	<10	8.9
Coal	3509			100		100	99	96	<10	2.2
Coal	1711			100		100	96	76	18	
Coal	2970					100			29	5.2
Coal	1712		100	92		69	49		34	
Coal	5122	100	98	95		63	33		48	0.6 0.6
Coal, power station	2167	33				100			620	
Coal (from mill drier)	0866	23	14 100	8		6	4		1100	
Coal, active contact	0257				91		68	42	23	
Coal, fat	2936								20	1.5
Coal, fresh contact	0258				98		76	50	20	
Coal, raw (carbon brush manufacture)	1804						100	95	<10	
Coal, raw (carbon brush manufacture)	1805	98	96	96		95	89		<10	
Coke, from mill	0869		100	99		98	96		<1	
Coke	2168				90		50	35	32	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	n.i.	10	no						1
60	9.0	117	St 1			520		320	4
	8.5		St 1			540		270	
						520		230	
						530		270	
	n.i.					n.i.u.850		n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	
30			St 1						4
30			St 1						4
15			St 1						3
60	6.3	43	St 1						3
60	6.4	85	St 1		>10 <sup>5</sup>		n.i.u.560	380	3
60	6.5	85	St 1		>10 <sup>5</sup>		n.i.u.560	n.g.u.500	3
30			St 1						3
30			St 1		>1000				2
30			St 1						2
	n.i.								
	n.i.					n.i.u.850		450	
15	7.3	88	St 1						4
	n.i.								
					>1000	n.i.u.900		n.g.u.450	
125	6.9	102	St 1			n.i.u.900		n.g.u.450	2
30			St 1						2
	n.i.								1
	n.i.					n.i.u.850		n.g.u.450	

<b>Product group 1.1.3 Coal, coal products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Coke	0868		98			65 100			43	
Coke ash, from filter unit	1545	77	68 100	56		43	32		100	
Coke slack, from sintering belt	0870			100		100 99	73		19	
Coke, distillation residue	2169	80		60	53		43	32	53	
<b>Electrode carbon</b>	2161	58	100	14					420	
<b>Hard coal</b>	2174				97		93	85	<10	
Hard coal	2175				99		95	89	<10	
Hard coal	2176				90		76	60	16	
Hard coal	2177				82		60	42	24	
Hard coal	2178				84		58	45	25	
Hard coal	2180				85		55	37	29	
Hard coal (Petchora coal)	2181			76	65		46	37	38	
Hard coal, 32 % ash in dry	2179				80		55	43	26	
Hard coal, anthracite	2182							99	<10	
Hard coal, anthracite	2183				99		97	85	<10	
Hard coal, anthracite	2184				99		86	55	19	
Hard coal, anthracite	2185				90		72	52	19	
Hard coal, anthracite	2186				98		82	50	20	
Hard coal, anthracite, Korea	2187			79	63		43	35	29	
Hard coal, anthracite	0265		100		85		53	34	30	
			100			100				
Hard coal, anthracite	0266			93	71		31	16	47	
Hard coal, anthracite	2188	91		46	31				140	
Hard coal, anthracite	2189	72		30	17				240	
			100							
Hard coal, anthracite/lignite coke	2190		100	85	84		68	42	23	
			100							
Hard coal, coke coal	2199				85		61	46	23	
Hard coal, gas coal	2193							98	4	
Hard coal, gas coal	2194							99	4	
Hard coal, gas coal	0261				99		88	69	14	
Hard coal, gas coal	0262				99		88	65	15	
Hard coal, gas coal	0263				99		84	60	17	
						100				
Hard coal, gas coal	2195	25	16						1150	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explo-sibility	Limit. Oxy-gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15	n.i.		St 1						2
60	8.2	146	St 1			470		330	1
	n.i.					n.i.u.850		n.g.u.450	1
125	9.0 n.i. 8.1 8.4 n.i. 7.9 8.6 n.i. n.i. n.i. n.i. 0.6 n.i.	55 70 80 37 86	St 1 St 1 St 1 St 1 St 1			590 730 600 610 760 730 610 640 850 n.i.u.850 n.i.u.850 n.i.u.850 n.i.u.850 n.i.u.850		270 290 250 270 440 n.g.u.450 360 450 330 360 350 n.g.u.450 450 n.g.u.450	4
100	0.6 n.i. n.i. n.i. 0.6	2	St 1			n.i.u.850 n.i.u.850 n.i.u.850 n.i.u.850		n.g.u.450 450 n.g.u.450	1
	0.6		yes			710		340	2
	n.i. n.i. n.i.		St 1			710 n.i.u.850 n.i.u.850		380 n.g.u.450 n.g.u.450	
						720		330	1
60	9.1	70	St 1			580		240	3
60	9.1	58	St 1			500		260	
60	9.1	59	St 1			510		260	
	8.8	72	St 1			590		260	
60	9.0	71	St 1	14		590		260	
	9.3	93	St 1			550		260	4
	7.8	54	St 1					n.g.u.450	

<b>Product group 1.1.3 Coal, coal products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Hard coal, gas flame coal	2196				100			99	<10	
Hard coal, gas flame coal	2197				99		95	80	12	
Hard coal, gas flame coal	0259				89		66	42	24	
			100							
Hard coal, gas flame coal	0260				89	100	58	40	28	
			100							
Hard coal, gas flame coal	2198				83		55	38	29	
Hard coal, lean coal	0264				97		86	53	19	
						100				
Hard coal, steam coal	2192						100	99	<10	
Hard coal, steam coal	2191				86		61	43	25	
Hard coal coke	0267				92		82		13	
Hard coal coke	0268						75		22	
Hard coal coke	2200			86	50		17	8	67	
Hard coal coke smalls	2201	78		25					220	
Lignite	2763								16	17
Lignite	2767								18	
Lignite	2106				65		56	49	21	9.3
Lignite	2762								21	
Lignite	2673								22	9.9
Lignite	2764								26	30
Lignite	0242				76		50	29	32	
			100							
Lignite	2698								35	9.2
Lignite	2107				67		44	28	38	
Lignite	2950								40	8.0
Lignite	2108			83	69		40	20	41	
			100							
Lignite	2109				64		43	28	42	
Lignite	2110				67		40	25	42	
Lignite	2111			83	69		38	13	43	
			100							
Lignite	2112			80	63		41		44	
Lignite	0861	98	95	77		58	41		45	
			100							
						100				
Lignite	2113				64		38	20	45	
Lignite	2909								48	14
Lignite	2863								49	10
Lignite	2114				61		35	27	50	
Lignite	2743								50	17
Lignite	2115				59		40	33	52	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>S</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	8.6	112	St 1			460		250	
60	9.0	95	St 1			570		240	
60	9.2	129	St 1			590		245	4
15	8.8	114	St 1			600		250	4
60	8.3	70	St 1			610		240	
60	8.6	43	St 1			670		300	3
	0.5	1	yes			680		310	
	n.i.		St 1			700		360	
	n.i.					795		n.g.u.485	
	n.i.					710		n.g.u.450	
	n.i.					720		n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	
60	9.1	114	yes		4/8	410		270	
			yes		10/100				
			St 1						
			yes		2/5				
			yes		10/100				
			yes		300/1000				
60	10.0	151	St 1			380		225	4
	8.6	103	St 1		>100				
	9.1	123	yes		100/300				
			St 1		>100	420		230	
60	9.6	112	St 1	12		440		230	4
	9.0	116	St 1			450		250	
60	8.9	122	St 1		>100	420		240	
30	8.7	113	St 1			440		250	4
	8.4	136	St 1						
	9.3	109	St 1			410		240	4
			St 1						
			yes		300/3000				
			yes		100/300				
	9.6	138	St 1			410		250	
	9.1	107	St 1		>1000	420		240	

<b>Product group 1.1.3 Coal, coal products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Lignite	0244		100		60		29	4	53	
Lignite	2864								53	9.0
Lignite	2116				58		30	10	55	
Lignite	2118				59		35	24	56	
Lignite	2865								58	8.8
Lignite	4448	99				51 100		21	59	
Lignite	2120				53		30	16	62	
Lignite	4355								63	
Lignite	2121			80	54		18	5	66	
Lignite	2123			71	49		28		72	
Lignite	2124			64	49		35		75	
Lignite	2125			64	47		25		80	
Lignite	2744								93	24
Lignite	2126	79		45	35				150	
Lignite	2745								240	12
Lignite	2745	62		20	12				360	
Lignite	2947								500	12
Lignite	2948								500	15
Lignite	2949								700	16
Lignite	0247	28		4	2				900	18
			100			100				
Lignite, dust deposits	0243		100		80		45	20	35	
						100				
Lignite, from electrostatic precipitator	0245		100	75	60		27		55	
						100				
Lignite, dust deposits	0246		100	61	49		30	22	75	
						100				
Lignite, 40 % ash dry	2130	99		54	40		30	26	115	
			100							
Lignite, ground dust	2119		100	71	56		38	30	60	
Lignite, ground dust	2122		100	69	50		36	22	70	
Lignite, hard	0862	100	92 100	80		61	43		42	
						100				
Lignite, mixed dust	2117								55	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	9.7	176	St 1			440		230	4
	9.0	132	yes St 1		100/300 >300	420		230	
	10.0	153	St 1			430		240	
			yes		100/300				
60	9.3	128	yes St 1			400 430	440	240	
	8.7	123	yes St 1	12		430			230
	9.1	140	St 1	12		450			240
	9.0	96	St 1			410			230
	8.8	105	St 1			460			240
	7.4	32	St 1		>1000	410			250
	7.5	54	yes St 1		300/1000	560			300
	n.i.				>1000 >1000 >1000				
100					520		250	4	
60	8.1	93	St 1 St 1			480		300	4
60	9.0	143	St 1 St 1			450		240	4
60	8.5	100	St 1 St 1			450		250	4
	n.i.		St 1						4
						560		300	
	8.9	107	St 1		>100	420		230	3
	8.6	122	St 1		>100	410		230	3
15	7.3	86	St 1				470	230	4
	8.8	115	St 1		>100	410			230

<b>Product group 1.1.3</b> <b>Coal, coal products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Lignite, raw	0248		100			100				
Lignite, raw	2129	72	100	52	49		40	37	90	53
Lignite, slack	2132	35		6					1000	53
Lignite, briquette dust	2131			69	56		41	33	51	
Lignite, briquette dust	1275	63	36 100	19		13	11		370	1.3
						100	82	54	18	1.3
Lignite, briquettes, broken	2128	51		16					460	1.3
Lignite/anthracite (20:80)	2138				91		85	80	<10	
Lignite/anthracite (40:60)	2137				83		72	64	<10	
Lignite/anthracite (50:50)	2136				79		64	45	16	
Lignite/anthracite (60:40)	2135				79		60	45	24	
Lignite/anthracite (70:30)	2134				71		50	35	32	
Lignite/anthracite (80:20)	2133				66		43	24	40	
Lignite/hard coal (80:20)	4447		100							
Lignite coke	0249				97		77	58	16	
Lignite coke	2139				87		64	48	21	
Lignite coke	0250						73	43	22	
Lignite coke	2141			81	62		41	31	47	
			100							
Lignite coke	2142	93		61	51		39	29	65	
			100							
Lignite coke	0251			70	48		28	23	78	
			100							
Lignite coke	2144			65	44	100	25	19	85	
Lignite coke	0252			63	44		30		98	
			100							
Lignite coke	2145	96		60	34	100			100	
Lignite coke	0253	93		18	13				290	
			100							
Lignite coke	2147	24		18	8	100	4	3	300	
Lignite coke	2148	47		18	13				520	
			100							
Lignite coke	2151	10							950	
			100							
Lignite coke	2152	4							1250	
Lignite coke	2153								1400	
			100							
Lignite coke, graphitised	2154				82		55	35	28	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	n.i.		St 1		>1000	490		250	3
125	7.7	37	St 1			520		270	3
125	9.4	90	St 1	15		400		230	
250	7.7	130	St 1					250	4
15	8.9	170	St 1		10/100		440		
	8.1	74	St 1			460		280	
			St 1			590		280	
	8.6	59	St 1			500		260	
	8.4	68	St 1			480		250	
60	8.1	84	St 1		>3000	460		240	
60	8.4	75	St 1		>3000	440		230	
60	8.6	108	St 1		>3000	440		230	
								240	
30	8.4	64	St 1			680		n.g.u.450	3
60	8.9	75	St 1			550		425	
60	7.9	84	St 1			510		310	4
60	8.6	78	St 1			490		390	
									3
60	8.5	83	St 1			470		390	
									3
125	8.5	75	St 1			570		420	
			St 1						3
	8.4	66	St 1			590		n.g.u.450	
125	7.9	53	St 1			550		390	
									3
			St 1						
125	9.1	104	St 1			560		n.g.u.450	
250	8.4	115	St 1			560		n.g.u.450	
									3
			St 1						
	n.i.					590		n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	
250	7.8	49	St 1			n.i.u.850		430	1
									1
	7.4	32	St 1			n.i.u.850		n.g.u.450	
	7.7	41	St 1			n.i.u.850		430	
									1
	n.i.					n.i.u.850		n.g.u.450	

<b>Product group 1.1.3 Coal, coal products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Lignite coke, high temperature	2694								46	0.3
Lignite coke, HTW gasifica- tion, residual dust	2140			96	72		50	38	32	
Lignite coke, HTW gasifica- tion (40 % residual coke)	2146			50	35		27		125	
Lignite coke, HTW gasifica- tion, residual coke	2149	30							700	
Lignite coke, hydrogenating degasification, resid. coke	2143			74	50		22	13	71	
Lignite coke, hydrogenating degasification, resid. coke	2150	29	1						800	
Lignite coke slack	0863	100	86 100	58		46 100	36		89	
Lignite coke slack	2155	45		12					500	
Lignite coke slack/sewage sludge	0864	89	71 100	60		53 100	40		61	
Lignite coke/hard coal coke (30:70)	2156				81		54	38	29	
Lignite coke/hard coal coke (30:70)	2157	23							900	
Lignite coke/hard coal coke (20:80)	2158				83		52	35	31	
Lignite coke/hard coal coke (20:80)	2159	56		6					380	
Lignite coke/hard coal coke (10:90)	2160	59		15	1				290	
Lignite slurry	1679	62	53	40		28 100	21		249	
Lignite slurry/petroleum coke/ hard coal slurry (1:1:1)	1678		100	98		83 100	66		19	
<b>Needle coke</b>	2835								215	
<b>P</b> etroleum coke	0750				93		75	59	15	
Petroleum coke	2517				99		84	58	16	
Petroleum coke	1164		100	97		86 100	62		23	
Petroleum coke	2518			95	83		55	39	28	
Petroleum coke	2519				72		45	30	38	
Petroleum coke	2520		100	83	51		22	14	71	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibil-ity
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	7.8	90	St 1		>1000	480		450	
125	7.9	142	St 1			470		350	
	n.i.					n.i.u.850		360	
	8.4	73	St 1			460		340	
250	7.6	62	St 1			630		350	
			St 1				n.i.u.600	440	2
	n.i.					n.i.u.850		n.g.u.450	
			St 1				n.i.u.600	400	2
60	8.4	56	St 1			580		440	
	n.i.					n.i.u.850		n.g.u.450	
60	8.1	40	St 1			660		n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	
	7.9	117	St 1	>15			480	240	3
125	8.0	82	St 1	>14			470	260	4
					>1000				
125	7.6	47	St 1			690		280	4
	7.6	39	St 1			700		310	
								410	3
<30	7.1	61	St 1			700		300	3
60	8.0	40	St 1			n.i.u.850		n.g.u.450	3
	n.i.							n.g.u.450	
125	3.8	3	St 1			750		n.g.u.450	3

<b>Product group 1.1.3 Coal, coal products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Petroleum coke	2679								108	
Petroleum coke	2521	65		41					160	
Petroleum coke (anode residues)	2522	45		26	14				700	
Petroleum coke	1165	9	6	2		1			2500	
			100							
Petroleum coke (98 % C)	1163		100	97		100	62		22	
						100				
Petroleum coke, calcined	1903	99	97	92		86	76		<10	
						100				
Petroleum coke, calcined, dust deposits	1922	93	92	90		88	82		<10	
			100							
Petroleum coke, calcined	2523			94	86		64	47	22	
			100							
Petroleum coke, calcined, dust deposits	2524	82		57	45		26	19	94	
			100							
Pitch	2171				83		54	32	29	
Pitch/pitch coke (2:1)	2172				86		64	46	22	
Pitch coke	2173				93		86	75	10	
<b>S</b> oot	0751							99	5	
Soot	0752						99	93	<10	
Soot	0753						98	91	<10	
Soot	0756							100	<10	
Soot	1452								<10	
Soot	2526							97	<10	
Soot	2527						100	95	<10	
Soot	0754								<10	
Soot	0755								<10	
Soot	0757								<10	
Soot	2528				100		92	74	12	
Soot	0758						95	75	13	
Soot	0759						96	65	16	
Soot	2529				95		65	23	25	
Soot	2530			32	5				150	
Soot	2531	99		13	12				170	
Soot	5286	71	50	27		23	7		250	0.6
(amorphous carbon)			100							0.6
						100				0.6
Soot	0760	13							1000	
Soot	2977									0.2
Soot, desorbed from acetylene	2532			97	30				86	
	2533			52	21				120	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	n.i. n.i.				>1000	n.i.u.850 n.i.u.850		n.g.u.450 n.g.u.450	
30	5.9	33	St 1				n.i.u.600	n.g.u.800	2
15	6.5 n.i.	61	St 1				n.i.u.600	310	2
							n.i.u.600		2
250	7.6 6.8	74 14	St 1 St 1			n.i.u.850		n.g.u.450	2
						n.i.u.850		n.g.u.450	3
15	8.4	117	St 1			550		melts	3
30	8.4 6.2	109 15	St 1 St 1			610 n.i.u.850		melts n.g.u.450	
60	9.2	85	St 1			760		590	
60	8.4	121	St 1	12		630		390	4
60	8.2	111	St 1	12		620		385	4
60	8.6	49	St 1			(680)		580	
60	7.4	26	St 1		>10000	800		n.g.u.450	3
60	8.1	62	St 1			n.i.u.850		n.g.u.450	
60	8.7	90	St 1			810		570	
30	8.8	88	St 1			840		570	
60	n.i.					690		535	2
60	7.3	27	St 1			n.i.u.850		n.g.u.450	
15	8.6	120	St 1	12		620		435	4
	8.1	94	St 1	12		630		435	4
60	8.0	62	St 1		>3000	720		n.g.u.450	3
	8.0	58	St 1			660		n.g.u.450	
60	7.5	23	St 1			n.i.u.850		n.g.u.450	
100			St 1						2
	6.6	32	St 1			n.i.u.900		n.g.u.450	
	8.0	64	St 1	16	>1000	660		n.g.u.450	
	8.0	54	St 1	16		670		n.g.u.450	

<b>Product group 1.1.3 Coal, coal products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Soot, dye	1167		100	99		90	49		32	
Soot, flame	5466					100	99	98	<10	0.7
Soot, oil-treated	2637								80	1.7
Soot, oil-treated	2632								375	2.1
									375	2.1
Soot, oil-treated	2627									0.9
Soot, oil-treated	2624									
Soot, pine	0761						100	97	<10	
Soot, pine	0762						99		<10	
Soot (tyre incinerator)	1166	100	99	97		95	84		4	
<b>W</b> ash coal	2813								20	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	7.4	81	St 1		100/1000 3/5 10/30 n.ind. 3/7 100/300				2
60			yes						
	7.9	26	St 1						
	7.9	26	St 1			(780)		n.g.u.390	1
	n.i.								
			yes		10/100				

<b>Product group 1.1.4 Other natural products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
<b>A</b> lpha-cyclodextrine	4024								32	
<b>B</b> itter lupin extract	1551		100			100				
Bulls' testicles, ground	1771	99	91 100	72		44 100	26		72	
<b>C</b> alamus roots, ground	0879	21	16 100	11		8	3		7000	
Castor oil, hardened (99 %)	4224					100 100				
Cocoa husks (dust)	3246	98	97 100	96		91	67		13	10
Cocoa husks, ground	3245	64	30 100	13		8	5		400	8.3
Cocoa husks (abrasion)	3392	55	36 100	25		17	6		410	7.3
Cocoa husks, broken	3190	10	5 100	2		1			2700	4.5
Coffee skin, after roasting process	0273	16	100			100			1750	
Coloured clay, from raw lignite rich in humic acid	2203				100		88	58	18	
Cotton seed expeller, Brazil, silo inlet	0269	66	100	24	10				245	
<b>D</b> extrin	2660								<20	4.1
Dextrin	0270		100		88		27		<20 41	4.1
Dextrin	0271		100		57	100	26	5	55	
Dextrin	2202				67		21	10	58	

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			yes		30/300				
100			St 1						2
30			St 1						2
30			St 1						4
< 15	9.2	222	St 2		< 4		375		4
60	7.6	75	St 1						4
	7.8	77	St 1		>10 <sup>5</sup>				4
			St 1						3
15	7.8	68	St 1					300	4
15			yes		>10		470		3
			St 1						4
125	8.1 n.i.	68	St 1		>10 <sup>5</sup>		n.i.u.520		3
			St 1			600		360	4
125	7.2	39	St 1			480		285	
125	7.7	35	St 1			(480)		350	
			St 1						3
60	8.8	106	St 1		8/14 100/300 n.ind.	510		n.g.u.450	2
	8.8	109	St 1			490		n.g.u.450	2
	9.9	160	St 1			470		n.g.u.450	

<b>Product group 1.1.4</b> <b>Other natural products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
<b>Ergot</b>	0281		100	55	33		14		110	
<b>Flax, dust containing oil</b>	0280	63		21					300	
<b>Gamma-cyclodextrin</b>	4026								35	
Gluten, hydrolysed	1276		100	99		87	54		30	
Gluten, hydrolysed	1279			100		100	64	37	26	
Gluten, hydrolysed	1278	98	97	82		100	53	24	31	
Gluten, hydrolysed	1277		100	92		59	37	21	47	
Guar core flour, ethoxylated	4221					100	67		28	
Guar flour	0874			100		56	33		51	
Guar flour/galactomannan	0875					100	72	26	26	
Guar flour	0874					100	4		38	
Guar flour	0875					100	77		70	
Guar flour	0875					100			23	
<b>Haemoglobin powder</b> (blood meal)	2206			93	61		27	5	57	
Herbs (graminis flowers, yarrow, wild thyme, thyme)	0880		99	95		93	72		10	
Hop, Belg. target ( $\alpha=10.8\%$ )	5473					100	68	35	25	5.2
Hop, Chin. Quingdao ( $\alpha=6.5\%$ )	5474					100	71	32	25	5.1
Hop, US-Nugget ( $\alpha=15.2\%$ )	5475		100	53		20	8		120	4.8
Hop blossom, dried and ground	0876	100	99	76		100	33	17	91	4.8
Hop cones, ground	0877		100			100				
Hop draff	2209	52		14	9				490	
Hop draff (contents, resins, extracted aromatic substances)	0878		35			4			330	
Hop pellets	2208	6				100			2500	
Hop, raw	2207	50		8	4				500	
Horn meal	0272		100							
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	7.4	38	St 1 St 1			490		400	3
	6.0	17	St 1			(440)		230	
200			yes St 1		10/30 1000/10000			500 480	2 2
100			St 1		100/1000		460	420	2
100			St 1		10/100		400	480	2
200			St 1		1000/10000		510		
15	8.2	42	St 1 St 1		10 <sup>5</sup> /10 <sup>6</sup>				2
100			St 1 St 1						3
60	9.4	85	St 1			610		n.g.u.450	1
									4
30			St 1						4
30			St 1						4
30			St 1						4
30			St 1						4
100			St 1						4
100			St 1 St 1	18		420		270	4
30			St 1						
	n.i. 7.5	47	St 1	17		450 460		300 290	2
30			St 1						

<b>Product group 1.1.4 Other natural products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Horse-chestnut extraction residues	0884		100			100				
Humic acid product, from raw lignite (about 50 % humic acid)	2210				100		93	68	15	
Lady's thistle extraction residues	0883		100			100				
Leather, from dust separator	0274		100			100				
Leather, from dust separator	0275		100			100				
Leather, vegetable-tanned, grinding dust	0278		100			100				
Leather, grinding dust	5594	100	95 100	75		45 100	22 19		78 210	11 3.4 3.4
Leather, chrome tanned (chrome leather)	0881	71	54 100	40		28 100				
Leather, aniline-dressed, grinding dust	0276	72	100	28		100			310	
Leather, dressed with casein and plastic binder (50:50), grinding dust	0277	55	100	20		100			420	
Leather/hairs (fold shavings)	5596	79	65 100	41		26 100	15		180	9.9 2.9 2.9
Leather/hairs	5597	11 100	3	3		2	1		1500	8.1 1.9
Leather/rubber (70:30), sole production, grinding dust	0279		100			100			355	
Lycopodium	0882					100	91		15	
Lycopodium	1280					100	99	1	24	
Lycopodium	1281					100	96	2	26	
Lycopodium	1282					100	65	3	30	
Lycopodium	4446						100		30	
<b>Methyl beta cyclodextrin</b>	4025								<23 <23	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>st</sub> Value	Explosibility	Limit. Oxygen. Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100 30	8.9	86	St 1 St 1			440		280	3
30			St 1						2
30			(St 2)						5
30			St 1						5
30			St 1						3
30			St 1						4
100	n.i.		St 1			570		310	3
100	n.i.		St 1			520		310	4
30			St 1						4
30			St 1						4
15	n.i.		St 1			560		310	3
100			St 1				410	280	2
			(St 2)		<5		440		5
			(St 2)		<5		390	290	5
<15 30	8.5 8.3	119 181	St 1 St 1	7,5	5/10		410 425	290 280	5 5
			yes		3/4 3/7 n.ind.				

<b>Product group 1.1.4 Other natural products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
<b>O</b> live stones, ground	1989		100	99		72	45		38	
<b>O</b> range pips, crushed (abrasive)	0871	42	1 100			100			520	
<b>O</b> x gall, dried, cleaned	0282						99	85	14	
<b>S</b> eeds	2643								36	11
<b>S</b> eeds	2605								86	5.3
<b>S</b> eeds (beet seed)	2604								110	8.1
<b>S</b> eeds/wood meal (35:65)	2600								84	8.4
<b>S</b> traw	2213	96		26					200	
<b>S</b> traw	2214	66		4					320	
<b>T</b> amarinds core flour, carboxymethylated	4222					100				
<b>T</b> hyroid glands, ground	1772	99	96	82		46	20		65	
<b>T</b> ree bark, 75 % spruce, 15 % pine, 10 % fir	0872	96	92 100	87		67	40		39	
<b>W</b> alnut meal	2838								140	
<b>W</b> alnut shells, granulated (abrasive)	0283		100			100				
<b>W</b> ool	5595	25 100	6	3		3	2		800	10 3.1

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ			°C	BZ
30	9.0	112	St 1						3
30 60	7.6	87	(St 2) St 1			520		n.g.u.440	5 2
125	8.0 7.9	47 38	St 1 St 1	yes	>1000 100/300 >1000  >1000	470 510		310 340	
15 30 30	7.8	15	St 1 St 1 St 1		10 <sup>6</sup> /2·10 <sup>6</sup>				2 4
30 15			yes St 1 St 1		300/1000				4 2

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content	
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight	
ABS, mixed material	1283	86	71	50		39	19		125	0.8	
		86	71	50		39	19		125	0.8	
			100								0.8
ABS, mixed material	1285	76	56	35		15	3		210	0.5	
		76	56	35		15	3		210	0.5	
			100								0.5
ABS, mixed material	1286	61	34	20		10	5		390		
			100								
ABS, raw material	1284	83	59	36		20	10		200	1.3	
		83	59	36		20	10		200	1.3	
			100								1.3
ABS, raw material	1886	92	44	5		1			290		
			100								
ABS copolymers	2831								30		
ABS copolymers	2826								30		
ABS copolymers	2830								35		
ABS copolymers	2825								35		
ABS copolymers	2829								41		
ABS copolymers	2216	94		54	38		14	4	97		
ABS copolymers	2215	91	100	51	37		25	21	120		
ABS copolymers	2986								135		
ABS copolymers	2987								135		
ABS copolymers, grinding dust	0885		73			9			170		
			100						180		
ABS copolymers, flame retarding	0886	100	71	28		9	3		190		
			100								
						100					

Lower Explos. Limit	Max. Explos. Pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	8.1	171	St 1	11	<10 <10 o.l.				5
30			(St 2)				430		
60	7.7	108	St 1	12	10/50 1000/10000 n.ind.				5
15			St 1				430		
30	7.8	123	St 1						5
<30	8.2	165	St 1		<10 15/100 n.ind.			450	
30	8.3	156	St 1	11	<10 <10 n.ind.				5
30			(St 2)				430		
30			St 1 yes		<1 <1 n.ind.				5
			yes		<1				
			yes		<1 n.ind.				
			yes		<1				
			yes		7/13 n.ind.				
			yes		<1				
			yes		10/30 n.ind.				
30	9.2	142	St 1		2/5 4/8 n.ind.		470	n.g.u.450	5
30	8.9	160	St 1 yes		2/5		500	n.g.u.450	
			yes		100/300 n.ind.				
					4/8				
					30/300 n.ind.				
15			St 1						3(5)
30			St 1						2

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
ABS copolymers	0284	79	100	37	24				200	
ABS copolymers	2988					100			225	
ABS copolymers	1503	77	54 100	30		19	9		230	
ABS copolymers, ground	5330	49	35 100	23		16	7		510	0.7 0.7 0.7
ABS copolymers/PVC (80:20)	1504	91	79 100	61		33	23		100	
ABS copolymers/PVC (50:50)	1505	95	87 100	70		25	15		110	
ABS copolymers/PVC (30:70)	1506	98	81 100	62		14	6		115	
ABS/PVC/additives (57:25:18)	1287	86	75 100	56		26	15		110	
ABS/PVC/additives (33:50:17)	1801	89	80 100	51		100 9	68 3	24	27 120	
ABS/PVC/additives (33:49:18)	1800	90	82 100	60		100 18	10		100	
ABS/PVC/additives (25:57:18)	1802	92	87 100	63		100 16	9		94	
Acrylic acid sodium acrylate, copolymer, cross-linked	0887	100	98	90		57 100	18		58	
Acrylic fibres, ground	5336	100	98	96		74 100	26		44	1.5 1.5
Aminoplastic moulding com- pound, based on urea/ melamine resin, woodpulp	5064 5063	78	70 100	67		100 56	97 44	88	<10 45	1.9 5.9 2.2 2.2
Artificial silk flock, 3.3 dtex 0.5 mm	0919	100	99	98		96	92		1	
Calcium-magnesium resinate	5360	100	97	89		74	49		34	0.3
Cellulose-2,5-acetate	2217				100		89	53	19	

Lower Explos. Limit	Max. Explos. Pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	9.2	147	St 1 (St 2) yes		4/8 30/100 n.ind.	480		n.g.u.450	5
15	8.5	209	St 2 (St 2) (St 2) (St 2)						5 5 5
15			(St 2)						3
15			(St 2)						2
15			(St 2)						3
60	8.2	167	(St 2) St 1		10/15				2
<30	8.0	142	St 1				500		3
15			St 1						2
30	7.8	117	St 1						2
15	7.7	123	St 1						2
30			St 1						5
30			St 1						2
100			St 1						2
30			St 1						2
30			St 1						4
30	8.2	193	St 1	12					3
30	9.8	180	St 1			520		n.g.u.450	

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Cellulose-2,5-acetate	2218	7							940	
Cellulose acetate	0285	17							1400	
			100			100				
Cellulose acetate propionate	0286		100			100				
Cellulose meal	5446		100	97		82	61		24	2.9
						100				2.9
Coating powder, based on epoxy resin	1325			100		91	50		32	
						100	51	16	30	
						100	51	16	30	
Coating powder, based on epoxy resin	0888		100	82		58	28		55	
Coating powder, based on epoxy resin	0889		100	73		43	24		79	
						100				
Coating powder, based on polyester (seam protection)	1326			100		67	33		49	0.7
						100				0.7
Coating powder, based on polyester (seam protection)	1327			100		60	27		54	0.3
						100				0.3
Coating powder, based on polyethylene	1498	99	71	15		1			200	0.3
			100							
Coating powder (seam protection)	1324					100		80	<10	
Coating powder, with 1.6 % aluminium	1573	43	42	41		34	30		740	
			100			100				
Coating powder, with 8.6 % aluminium	1574	40	29	24		21	17		1200	
			100			100				
Colophony	0339		100			100				
Colophony	1808		100	96		84	60		22	
Colophony	1300	99	97	96		87	68		22	
						100	80	51	19	
Colophony	1301	98	96	91		86	60	51	26	
						100	72	47	22	
						100	72	47	22	
Colophony	1797	94	88	82		65	39		41	
			100							
Colophony	2964					100			73	
									73	



Lower Explos. Limit	Max. Explos. Pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	n.i.					800 770		n.g.u.450 n.g.u.450	3 3(5) 5 3
30			St 1						
15			(St 2)						
60	9.0	99	St 1						
15	7.6	136	St 1		<10 <10 n.ind.		520		2(2)
30			(St 2)						
	7.5	125	St 1				510		3
<15	7.0	98	St 1		<10 <10 n.ind.		460		3(3)
<15	7.1	117	St 1		<10 10/15 n.ind.		450		2
30			St 1						3
200			St 1		15/100		470		3(3)
30			(St 2)						3
30	12.8	347	St 3				470		5
30			(St 2)						
30	8.5	169	St 1						3(5)
30	9.4	324	St 3		<5 <5 n.ind.		350		5(5)
30	9.4	330	St 3		<5 <5 n.ind.		340		3(5)
15	9.3	307	St 3 yes		<1 <1 n.ind.				

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Colophony, modified	5358	73	55 100	33		14	3		220	0.5 0.5
Colophony	5331	38	28 100	21		17	10		900	
Colophony	1796	16	11 100	7		3	1		7200	
Colophony, balsam resin (raw, China)	5332	96	93 100	82		62	40		44	
Colophony, balsam resin	3543	93	86	75		100 100	65 65	40 40	25 25	0.4 0.4
Colophony, balsam resin	5359	51	44 100	38		29	17		440	0.3 0.3
Colophony/kaolin (1:2) Copolymer, 70 % PVC Copolymerisate Copolymerisate, vinyl acetate Copolymerisate, vinyl acetate	0340 2969 2940 2930 2931				96		90	76	10 260 14 43 65	
Epoxy polyester	4407		100			94 100		25	30	
Epoxy polyester	4408			100		88 100		20	35	
Epoxy polyester, grinding dust	1838	91	88 100	79		58	33		52	
Epoxy resin and 2-methyl imidazole (reaction product)	1716	100	98	84		100 65 100	50		32	
Formamidine acetate	1526	93	87 100	52		18 100	2		120	
Glass fibre reinforced plastic, grinding dust	0288		100			100				
Glass fibre reinforced plastic, dust deposits	0287		100			100				
Glass fibre reinforced plastic	1709	99	97	89		86 100	83		<10	
Glass fibre reinforced plastic, (cutting)	0892		100	98		91 100	77		11	
Glass fibre reinforced plastic, grinding dust deposits	1645	99	96	84		74 100	59		22	

Lower Explos. Limit	Max. Explos. Pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m³	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	8.3	222	St 2	11					3(5)
<30	8.2	201	St 2 yes	<14	<10 <10 n.ind.		330		2(5)
30	8.7	156	St 2						3(5)
30			St 1						2(5)
30	9.5	247	St 2		<10 <10 n.ind.		320		
30	7.8	159	yes St 1	12	<1		320		
60	7.3	78	St 1  yes yes		>1000 >1000 30/300 30/100	480		n.g.u.450	3(5) 5
60			yes				510	melts	
65			yes				490	melts	
30			St 1						2
15	9.3	237	St 2						2(2)
100			St 1						2(3)
30			St 1						3
30			(St 2)						5
200			St 1				500		3
30	7.6	216	St 2						2
30			St 1						2

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Glass fibre reinforced plastic	2681								53	
Glass fibre reinforced plastic, grinding dust	1528	77	68 100	64		49	39		65	
Glass fibre reinforced plastic (epoxy resin, glass fibres 50%:50%), grinding dust	0894	95	93 100	75		63	41		43	
Glass fibre reinforced plastic, (epoxy resin), grinding dust	0893		84 100			54			55	
Glass fibre reinforced plastic (epoxy resin, glass fibres 40%:40%), grinding dust	1924	96	91 100	79		52	24		60	
Glass fibre reinforced plastic (polyamide), grinding dust	0289		100			100				
Glass fibre reinforced plastic (polyester resin, glass fibres 60%:40%), grinding dust	0896		100			100				
Glass fibre reinforced plastic (glass fibres, polyester resin, non-combustible fillers 30%:40%:30%)	1288	97	95	88		85 100	77 95	89	<10 <10	
Glass fibre reinforced plastic, (polyester resin), grinding dust	0895	92	91 100	89		80	72		14	
Glass fibre reinforced plastic based on polyester, grinding dust	1289	81	78 100	74		67	44		38	
Glue, hide	0342		100			100			10	
Glue, methylcellulose	0343		100			100			10	
Glue, resin	0341		100			100			10	
Insulation material (mainly paper, PVC), shredder for copper cables	1918	71	63 100	38		19	8		190	
Laminate, (hardfabric), cotton and phenolic resin, lathe dust	0931		28 100			10			640	
Laminate, (hardpaper), cellulose and phenolic resin, lathe dust	0932		70 100			22			160	

Lower Explos. Limit	Max. Explos. Pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
					>30				
100			St 1						3
100			St 1						2
100			St 1						4
15			St 1					530	3
30			St 1						2
30			St 1						5
100			St 1		1000/10000		490		3
30			(St 2)						5
100			St 1		15/100 100/1000 n.ind.		460	n.g.u.380	3
			St 1						2
			St 1						5
			St 1						5
100			St 1						5
30			(St 2)						3
30			(St 2)						5

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Laminate, paper and resin, dust deposits	0493		100			100				
Laminate, paper and polyester resin, grinding dust	0494		100			100				
Laminate, paper, fabric and phenolic resin, grinding dust	0495		100			100				
Laminate, grinding dust	0492		100		40	100	16	9	90	
Melamine/phenolic resin moulding material, from final mixer	5303	99	98 100	97		90 100	67		20	2.6 1.3 1.3
Melamine/phenolic resin moulding material, raw mix	5300	100	99 100	95		75 100	48		34	2.5 1.2 1.2
Melamine/phenolic resin moulding material	5304	100	91 100	63		42 100	29		82	1.9 1.9 1.9
Melamine/phenolic resin moulding material, finished goods	5301	11	5 100	2		1			2200	1.9 1.9
Melamine/polyester resin moulding material, raw mix	5315	74	68 100	62		55 100	47		35	1.5 1.5 1.5
Melamine/polyester resin moulding material, finished goods	5302	21	6 100	3		1			1100	1.4 1.4
Methyl methacrylate butadiene styrene	2241			83	36				85	
Methyl methacrylate butadiene styrene	2883								90 90	
Methyl methacrylate butadiene styrene	2242			57	17				115	
Methyl methacrylate butadiene styrene	2881								125	
Methyl methacrylate butadiene styrene	2243			45	18				135	
Methyl methacrylate butadiene styrene	2244		100	41	12				140	
Methyl methacrylate butadiene styrene	2882		100						147	

Lower Explos. Limit	Max. Explos. Pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			(St 2)						4
30			(St 2)						3
30			(St 2)						4
60	9.8	130	St 1			510		330	4
			St 1						4
100			St 1						2
200			St 1						2
30			St 1						2
200			St 1						2
			St 1						2
100	8.7	126	St 1			460		melts	2
			yes		5/8 30/300 n.ind.				
15	9.0	106	St 1			460		melts	
			yes		30/100				
30	8.6	120	St 1		>10	470		melts	
15	8.4	96	St 1		>30	470		melts	5
			yes		30/100				5

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Methyl methacrylate butadiene styrene	2245			38	18				150	
Methyl methacrylate butadiene styrene	2246		100	36	13				150	
Methyl methacrylate butadiene styrene	2247		100	34	11				150	
Methyl methacrylate butadiene styrene	2884								157	
Methyl methacrylate butadiene styrene	2880								195	
Moulding compound, acrylic resin	2639								85	1.1
Moulding compound, epoxy resin	0476		100			100				
Moulding compound, epoxy resin	0477		100			100				
Moulding compound (26 % epoxy resin, 64 % quartz meal, 10 % glass fibres)	1475	31	19 100	14		8	4		1400	
Moulding compound, melamine resin (50 % melamine resin, 40 % wood flour), raw mixture	0890		53 100			25			230	
Moulding compound, melamine-formaldehyde- cellulose	0479				93	100	86	70	14	
Moulding compound, melamine-urea- formaldehyde-cellulose	0480				99		96	70	16	
Moulding compound, melamine-wood flour	0481	53	100	28	16				480	
Moulding compound, melamine-phenol-formalde- hyde-wood flour-cellulose- minerals-lubricant	0482		100			100	84	62	15	
Moulding compound, melamine-phenol-cellulose	0483				98		93	80	12	
Moulding compound, PF with wood meal and inorganic fillers	1901	53	13 100	3		1	1		480	



Lower Explos. Limit	Max. Explos. Pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	9.1	138	St 1			470		melts	
30	8.6	107	St 1		>30	470		melts	5
30	8.4	114	St 1		>30	480		melts	5
			yes		30/300				
			yes		100/300				
			yes		8/14				
30			St 1						4
100			St 1						2
100			St 1						2
100			St 1						2
60	10.2	189	St 1 St 1			800		n.g.u.440	2
60	9.9	166	St 1			780		n.g.u.440	2
250	6.8	21	St 1			760		n.g.u.440	2
60	7.5	41	St 1 St 1 St 1			640		n.g.u.450	2
60	10.0	127	St 1			610		n.g.u.440	2
			St 1						3

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Moulding compound, PF with wood meal and inorganic fillers, dust deposits	1323	97	90 100	80		78	75		<10	
Moulding compound, polyester	0484				99		91 98	76 76	<10 <10	
Moulding compound, polyester	0485								<10	
Moulding compound, polyester resin	2219	42		13					600	
Moulding compound, polyester	0486	35		10					740	
Moulding compound, polyester-resin- mineral-glass	0487	27	100						1280	
Moulding compound, polyester resin (27 % un- saturated polyester resins, 50 % inorganic fillers), raw mixture	0891		100			100				
Moulding compound, urea-formaldehyde-cellulose	0478				99		91	75	13	
<b>N</b> itro varnish, dry substance	0344				96		90	83	9	
Novolake	2248				99		88	70	13	
Novolake	2249				98		78	57	22	
Nylon flock (22 dtex 2.0 mm)	0347									
Nylon flock (6.7 dtex 0.5 mm)	0345									
Nylon flock (6.7 dtex 1.0 mm)	0346									
<b>P</b> henolic resin foam	2250				94		83	59	17	
Phenolic resin foam, cutting and saw dust	5270	96	88 100	76		39	20		73	5.1 1.6 1.6
Phenolic resin foam, ground	0920	87	76 100	57		26	7		115	
Phenolic resin hard foam, saw	0921	98	82 100	47		15	4		135	
Phenolic resin hard foam, cutter	0922	94	72 100	34		6			170	
						100				

Lower Explos. Limit	Max. Explos. Pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	9.2	219	St 2		<10 <10 n.ind.		480		2
	6.8	74	St 1						
	n.i.						570	n.g.u.450	
	n.i.								
	n.i.						660	n.g.u.440	
			St 1						2
			St 1						2
60	10.2	136	St 1			700		390	2
30	9.8	136	St 1		<1	630 560		melts n.g.u.450	2 (3)
	8.4	144	St 1						
			yes St 1						
	30		St 1						
30			St 1						2 (3)
30			St 1						2 (3)
30	9.3	73	St 1				460	280	
			St 1						
			St 1						
15			St 1						2
100			St 1						3
100			St 1						3

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Plastic, grinding dust, separator	1758	100	99	97		97	94		<10	
Plastic	2240				95		87	80	<10	
Plastic, grinding dust	1530	100	99	97		100	88		<10	
Plastic, dust from raw material	5306	80	75	71		62	52		26	1.2
mixing unit			100			100				1.2
Plastic, from foil waist	5478	94	87	64		39	18		90	2.5
			100			100				1.3
						100				1.3
Plastic	4050								380	
Plastic	1763	39	8	2					570	
			100							
Plastic	1790	27	6	1					720	
						100				
Plastic, carbon fibre reinforc., based on epoxy resin, sawing dust	5561	96	89	81		72	65		13	1.5
			100			100				1.5
Plastic component, based on methyl methacryl., 5 % dibenzoyl peroxide	1405			100		85	33		40	1.5
						100	36	10	37	
						100	36	10	37	
Plastic component, based on methyl methacryl.	1406			100		94	25		40	
						100	32	4	37	
						100	32	4	37	
Plastic, based on methyl methacryl. copolymer	1305			100		90	18		42	
						100	24	5	38	
						100	24	5	38	
Plastic component, based on methyl methacryl.	1407		100	66		14	5		120	
						100	25	3	39	
Plastics dust (ABS/PE)	5408	61	56	30		6	1		240	0.5
			100							0.5
						100				0.5
Plastics dust	5409	52	42	40		36	34		460	0.6
			100							0.6
						100	82	40	22	0.6
						100	82	40	22	0.6
Plastic flock (0.01 mm x 0.2 mm)	1778			100		97	92		<10	
Plastic, glass fibre reinforced polyester, 30 % glass fibres, mechanical process.	5588	99	97	97		95	86		<10	1.4
						100			<10	1.4
Plastic, regenerated	1726	98	97	95		87	77		10	
						100				

Lower Explos. Limit	Max. Explos. Pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	8.3	181	St 1						5
60	8.5	160	St 1			550		340	3
30			(St 2)						3
125	7.6	127	St 1						5
30	7.4	71	St 1		>1000				2
200	2.7	7	St 1 St 1 St 1						3(3) 3
100			St 1						5
15	9.1	124	St 1		<10 <10 n.ind.		430		5
15	8.8	107	St 1		<10 100/1000 n.ind.		430		5
30	8.5	102	St 1		<10 100/1000 n.ind.		440		5
30	8.6	98	St 1		10/100		430		5
30			(St 2)						3(5)
30	8.6	154	St 1		<10 <10 n.ind.		410		5
30			St 1						2
100			St 1						2
30			(St 2)						3(5)

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Plastic, regenerated	1304	87	76 100	70		57	34		52	
						100	62	34	26	
						100	62	34	26	
Plastic, regenerated, ground material	1720	1							2200	0.2
Plastic, regenerated, ground material	1721	2							2500	0.2
Plastic, recycled, granulate	5574	31	15	9	4	3			2900	0.9
Plastic wastes (mainly soft PVC)	1658	80	64 100	39		22	7		170	
						100				
Plastic/wood (95:5)	1306	96	94 100	92		85	60		27	
						100	67	42	23	
						100	67	42	23	
Plastics/wood (85:15)	1489	99	94 100	82		61	40		45	
						100				
Plastics/wood (85:15)	1488	80	67 100	42		23	11		160	
						100				
Plastic/wood, deposits	1307	93	65 100	26		11	3		200	
						100	43	16	35	
						100	43	16	35	
Polyacetal	1724	59	19 100	5		3	2		450	
						100				
Polyacetal (acetal copolymerisate based on trioxane)	1308	31	10 100	3		2	1		640	
Polyacrylamide	0348				100		95	81	10	
Polyacrylamide granulate, cationic	3409	100	67 100	17		7	1		198	3.7
						100				
Polyacrylamide	0349	66	100	17	11				360	
						100				
Polyacrylate	0350				99		80		22	
Polyacrylate	4033								30	
Polyacrylate	0923			100		63	9		59	
						100				

Lower Explos. Limit	Max. Explos. Pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15	8.1 n.i. n.i.	99	St 1		<10 <10 n.ind.		410		3(3) 3 3 5 2
30			St 1						5
30	8.4	163	St 1		<10 10/100 n.ind.		460		3 3
15 125	8.9 7.6	160 54	St 1 St 1						3
			St 1						3
15	8.3 6.8	136 27	St 1 St 1		<10 10/100 n.ind.		450		5 3(5)
30			(St 2)						2(5)
15 250	9.4 5.9	120 12	St 1 St 1		<10	780	390	410	2 1 1
125	6.2 n.i.	18	St 1		>5·10 <sup>5</sup>	690	400	n.g.u.450	2
30	9.6	139	St 1 St 1		>1000				5(5)
<15	8.3	175	St 1						

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Polyacrylate	2251			100	63		11	1	62	
Polyacrylate	2252	80		4					340	
			100							
Polyacrylate	4032								360	
Polyacrylate	2959								380	
Polyacrylate	2960								470	
Polyacrylate	2946								520	
Polyacrylonitrile	0933					100	99		2	
Polyacrylonitrile	0351				99		66	38	25	
Polyacrylonitrile	2253				98		67	26	26	
Polyacrylonitrile	4358								26	
Polyacrylonitrile	1309		100	91		70	24		48	
						100	31	4	38	
						100	31	4	38	
Polyacrylonitrile	0352				84		15		50	
Polyacrylonitrile	0353			95	47		16		63	32
Polyacrylonitrile	0354			84	34		5		86	55
Polyacrylonitrile	0355			69	34		3		90	
Polyacrylonitrile fibres, highly fibrillised	5074	100	96	92		59	15		58	3.3
			100							1.2
						100				1.2
Polyamide	4444		100							
						100				
Polyamide	4443		100							
						100				
Polyamide	2721								47	
Polyamide, white	2990								90	
Polyamide, grey	2992								90	
Polyamide, natural colour	2991								95	
Polyamide	0924	92	66	34		14	4		180	
Polyamide 12	0391		100							
						100				
Polyamide H 005 P	0390		100							
						100				
Polyamide, on mineral carrier	2610								<20	
									<20	
Polyamide, on mineral carrier	2609								28	
Polyamide flock, 3.3 dtex 0.5 mm	5143					100	99	12	25	1.7
Polyamide flock, 3.3 dtex 0.5 mm	0392				100		25	3	37	
						100				
Polyamide 6.6 (cutflock)	0925					99	20		43	
Polyamide flock, 22 dtex 2.0 mm	0393			92	12				102	
						100				
Polybutyl acrylate	2724								130	



Lower Explos. Limit	Max. Explos. Overpressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
125	6.9 n.i.	38	St 1		>1000	460 700		420 420	5 5
					>1000 >1000 >1000 >1000				
15	8.4 8.5 9.4	159 121 101	St 1 St 1 St 1 yes	10 11		540 510		n.g.u.450 melts	5 (5) 5 3(5)
<15	8.6	122	St 1		<10 <10 n.ind.		500		
15	9.9	131	St 1						
60	7.4 n.i.	41	St 1						
30	8.8	160	St 1						5
15			St 1						
25			yes				440		melts
35			yes yes				480		melts
					7/13 >1000 >1000 >1000				
250	7.2	58	St 1						2 (2)
15			St 1						2
30			(St 2) yes						
			yes		7/13 10/100 n.ind. 100/300 100/1000				
30			St 1				480		3(3)
30	9.8	93	St 1 St 1 St 1			520		melts	2 (3)
30									2 (2)
15	n.i.		St 1 yes		10/100	530		melts	2 (3)

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Polybutyl methacrylate	2993								55	
Polycarbonate	3257	81	56 100	33		13 100	5		210	0.2 0.2 0.2
Polycarbonate	2836								240	
Polycarbonate	3256	46	18 100	6		4	2		540	0.3
Polycarbonate	3255	35	14 100	4		2	2		600	0.2
Polycarbonate, sliced	0394	17	100	2	1				830	
Polycarbonate	1549	12	6 100	3		100 1	1		2400	
Polyester	4410		100			100				
Polyester	0395				98		96	92	5	
Polyester	0396				96		89	80	9	
Polyester	2261								<10	
Polyester	4441	100						92	<10	
Polyester, grinding dust	2563				98		95	93	<10	
Polyester, grinding and polishing dust	2568				99		96	91	<10	
Polyester, fine dust from mill	3360					100	99		<10	0.6
Polyester, dust from cutting of sheets	1920	99	99	98		100 92	83		<10	0.6
Polyester, grinding dust	1686	93	91 100	88		100 86	79		<10	
Polyester, grinding dust	1219	99	98	96		100 85	70		11	
Polyester, grinding dust	2564				92		70	38	23	
Polyester, grinding dust	2565			97	84		60	41	25	
Polyester	4409			98		81 100		15	39	
Polyester, grinding dust	1795	97	81 100	54		100 28	16		115	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			yes		30/300				2 2
	4.8	9	St 1 yes		300/1000				2 2 2 2
	5.3	17	St 1						2 2 2 2
	4.5 n.i.	11	St 1			800		n.g.u.450	2
30			St 1						2
			St 1						2
65			yes St 1				450		5
	8.6	195	St 1						
	10.5	162	St 1						
	10.1	194	St 1			570		melts	
40			yes St 1				440		
30	9.5	153	St 1			500		n.g.u.450	5
			yes		<1	530		n.g.u.450	
30	8.8	139	St 1		5/10 10/100 n.ind.		530		2
100			St 1						3
100			St 1						3
15	8.3	194	St 1						5
30	8.8	158	St 1			540		melts	
	9.4	237	St 2			550		n.g.u.450	5
85			yes				430	melts	
30			(St 2)						5

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Polyester (copolyester)	1868	83	57 100	42		18 100	8		180	1.0 1.0 1.0
Polyester (copolyester)	1923	67	40 100	17		7 100	3		349	0.8 0.8 0.8
Polyester dust mixture	3359			100		94 100	54		30	0.3 0.3
Polyester flock, 3.3 dtex 0.6 mm	0401									
Polyester flock, 3.3 dtex 0.75 mm	0402									
Polyester paint, grinding dust	5380			100		98	98		<10	1.0
Polyester paint, grinding dust	5381	95	90 100	82		66	61		20	44 0.7 0.7
Polyester resin mould compound	5506	88	80 100	74		71	64		<10 <10 <10	0.8 0.8 0.8
Polyester resin mould compound	5507	99	63 100	43		26	18	89	170	1.2 1.2 1.2
Polyester resin, grinding dust	1215			100		100 64 100	62 44	36	26 42	
Polyester rip fibres (cylinder)	5534	66	56 100	37		30	13		200	5.5 1.4 1.4
Polyester rip fibres (cylinder)	5535	57	51 100	40		35	17		245	4.0 1.9 1.9
Polyester rip fibres (condenser)	5536	76	49 100	45		42	19		255	4.4 1.6 1.6
Polyester rip fibres (cylinder)	5532	65	38 100	34		12	4		300	4.4 2.5 2.5
Polyester rip fibres (cylinder)	5533	57	46 100	42		27	12		300	6.1 2.0 2.0
Polyester rip fibres (hopper feeder)	5530	50	30 100	25		19	9		500	4.2 2.1 2.1
Polyester rip fibres (cylinder)	5531	31	27 100	24		16 100	5		1000	5.9 2.6 2.6

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	0.5	4	(St 2) St 1		>10 <sup>6</sup>				2(3)
15	7.6	87	St 1 St 1 St 2 St 1		>10		480 520		2(3) 1
30			St 1			570		melts	2 (3)
30			yes						2 (5) 5
30			yes						5
	n.i.						530		2
200			St 1		>10 <sup>5</sup>		460		2
15	7.0	110	St 1						5
30			St 1						5
30			St 1						5
30			St 1						3
30			St 1						5
30			St 1						5
30			St 1						5
30			St 1						5
30			St 1						5

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm.	% by weight
Polyester structural powder (approx. 60 % polyester epoxy resin mix)	5239		100	98		80	45		35	0.3
						100	70	43	24	0.3
						100	70	43	24	0.3
Polyester, poly(ethylene terephthalate)	0397	67		14					300	
Polyester, poly(ethylene terephthalate)	0398	38		8					625	
Polyester, poly(ethylene terephthalate)	0399		100						>3000	
Polyester, poly(ethylene terephthalate)	0400		100			100			>3000	
Polyethylene (foil recycling)	5476	82	66	62		51	27		60	2.4
			100			100				1.5
Polyethylene, dust deposits	1693	98	97	85		46	8		70	1.5
Polyethylene	2257			91	51		10		70	
Polyethylene, plastic bottle abrasion	3116	98	96	78		34	13		78	0.0
						100				0.0
Polyethylene	3489	99	96	63		23	6		95	0.3
				100						0.3
Polyethylene	2854								120	
Polyethylene	2853								125	
Polyethylene	2855								125	
Polyethylene	2786								150	
									150	
Polyethylene	2787								150	
Polyethylene	2785								155	
Polyethylene	1691	99	75	14		3	1		210	
			100							
Polyethylene	2258	82		8	2				280	
Polyethylene, from granulation unit	1979	56	52	27		14	8		248	
			100							
						100				
Polyethylene, cutting dust	0934	86	41	17		7	3		290	
			100							
Polyethylene	2259	68		13	2				360	
Polyethylene	1692	75	24	3					360	
			100							
				100						

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	7.7	146	St 1		<10 10/100 n.ind.		460		2
	n.i.					560		melts	
	1.1	2	St 1						
	n.i.					570		480	2
30	n.i.		(St 2)			620		melts	2
15			St 1						2
30			St 1						5
<15	7.5	108	St 1						3(5)
	7.5	67	St 1			440		melts	2
			St 1 (St 2)						1
			St 1 yes yes yes		100/300 300/1000 2/5				
			yes		100/300 n.ind. 4/13				
			yes yes		4/13 n.ind. 30/100 30/300				
	5.4	16	St 1		>5·10 <sup>6</sup>				2(5)
	6.2	20	St 1			470		melts	2(3)
15			(St 2)						2(5)
15	6.8 n.i. n.i.	75	St 1			470		melts	3(5)
			St 1						

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Polyethylene	4442	46	100	1		100			520	
Polyethylene (foil recycling)	5477	15	12 100	4		2	2		2000	0.8 0.8
Polyethylene chips	0389								2400	
Polyethylene, chlorinated	2769								190	
Polyethylene (gas phase polymerisation)	1993	100	94 100	56		19	6		110	
Polyethylene (gas phase polymerisation)	5139	80	14	2		100			400	0.4
Polyethylene (gas phase polymerisation)	1994	34	10 100	1					710	
Polyethylene (gas phase polymerisation)	5140	2	1						900	0.2
Polyethylene (suspension polymerisation)	1310					100	58	17	29	
Polyethylene (suspension polymerisation)	1995			100		100	58	17	29	
Polyethylene (suspension polymerisation)	2260					93	54		30	
Polyethylene flocks	2260					100				
Polyethylene foam, sawdust	1733	92	81 100	47		16	6		130	
Polyethylene, high pressure	2254			98	93		65	10	26	
Polyethylene, high pressure	2255				86		40	15	38	
Polyethylene, high pressure	3513	100	98	95		74	23		40	<0.1 <0.1
Polyethylene, high pressure	2256			90	54		3		69	
Polyethylene, high pressure (powder)	5347	100	65 100	11		2			220	0.2 0.2 0.2
Polyethylene, high pressure	1878	21	7 100	1		20	2		76 1300	
Polyethylene, high pressure	1877	6 100	2						6000	
Polyethylene, low pressure	0356						95	86	<10	
Polyethylene, low pressure	0357						94	80	13	
Polyethylene, low pressure	0358						70	37	24	
Polyethylene, low pressure	0359						94	21	24	
Polyethylene, low pressure	0360						65	39	25	
Polyethylene, low pressure	0361			97	73				52	
Polyethylene, low pressure	0362				70		6		62	
Polyethylene, low pressure	0363		100		56		16		65	
Polyethylene, low pressure			100							



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
20			yes					melts	
100	n.i.		St 1		>1000	n.i.u.950		melts	5
60	7.5	83	St 1 St 1						3(5) 3
30			St 1						3(5) 3
15	7.9	111	St 1		<10 10/100 n.ind.		420		3(3) 3(3)
15	8.1	119	St 1						
60	n.i. 6.0	29	St 1			740		melts	5
30	7.6	82	St 1						
15	8.7 9.0	104 137	St 1 St 1	10		490 440		n.g.u.450 n.g.u.450	
30	6.2 8.4	71 123	St 1 St 1		>10 >300		400	melts	2
30						450		melts	1
250	6.5	70	St 1		10/100		420		2(5)
100			St 1						3(5)
200			St 1						3(5)
15	8.0	156	St 1			420		melts	2 (5)
15	7.6	82	St 1			360		melts	2 (2)
15	7.6	74	St 1			400		melts	
15	7.6	54	St 1			410		melts	2 (2)
15	7.4	62	St 1			450		melts	
30	8.8	122	St 1			460		melts	5
15	8.5	131	St 1			440		melts	
30	7.4	62	St 1			470		melts	2 (3)
									3 (5)

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Polyethylene, low pressure	0364			79	47		22	14	76	
Polyethylene, low pressure	0365			62	42		21	14	90	
Polyethylene, low pressure	0366			70	28				105	
Polyethylene, low pressure	0367			56					111	
Polyethylene, low pressure (powder)	5349		100	50		16	7		125	0.1
						100	36	9	35	0.1
						100	36	9	35	0.1
Polyethylene, low pressure	0368			50	21				125	
Polyethylene, low pressure	0369			44	21				135	
Polyethylene, low pressure	0370			36	10				150	
Polyethylene, low pressure	0371			28	7				160	
Polyethylene, low pressure	0372			10	6				162	
Polyethylene, low pressure	0373	100		25	9				163	
Polyethylene, low pressure	0374			24	7				163	
Polyethylene, low pressure	0375	100		25	6				170	
Polyethylene, low pressure	0376	100		18					173	
Polyethylene, low pressure	0377	99		1					182	
Polyethylene, low pressure	0378	97		13	2				215	
Polyethylene, low pressure	0379	98							230	
Polyethylene, low pressure	0380	96		2					232	
Polyethylene, low pressure	0381	90		19	11				240	
Polyethylene, low pressure	0382	90		20	9				245	
Polyethylene, low pressure	0383	92		15	6				260	
Polyethylene, low pressure	0384	91		13	4				270	
Polyethylene, low pressure	0385	95		1					280	
Polyethylene, low pressure	0386	90		14					295	
Polyethylene, low pressure	0387	96		4	1				300	
Polyethylene, low pressure	0388	84		2					410	
Polyethylene, low pressure (granulate)	5348	67	44	10		2			310	0.2
			100							0.2
				100		24	8	1	79	0.2
Polyethylene/polyurethane, from dust container of cutting machine	5557	90	65	49		31	14		130	1.0
			100							1.0
						100	47	28	34	1.0
Poly(methyl-vinyl ether)maleic anhydride, copolymers	0927	100	99	58		41	32		90	
						100				
Polymeric additives, based on acrylic rubber	2629								115	
Polymeric additives, based on acrylic rubber	2628								150	
Polymethacrylate	4434		100			99		39	18	0.2
						100				
Polymethacrylate	0403				90		70	48	21	
Polymethacrylate, bead polymerisate	0405				92		37	7	38	
			100							
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15	8.2	110	St 1			450		melts	
	8.4	157	St 1			420		melts	
30	8.7	109	St 1			440		melts	
30	8.5	80	St 1			460		melts	
60	7.9	98	St 1		<10 100/1000 n.ind.		420		2(5)
30	7.8	65	St 1			510		melts	
60	7.8	58	St 1			470		melts	
125	7.4	54	St 1			480		melts	
	6.8	36	St 1			480		melts	
60	7.4	58	St 1			470		melts	
60	6.9	48	St 1			490		melts	
	5.5	13	St 1			480		melts	
60	7.3	49	St 1			500		melts	
250	7.1	38	St 1			470		melts	
	n.i.					460		melts	
	n.i.					460		melts	
	n.i.					490		melts	
	n.i.					460		melts	
60	7.4	56	St 1			440		melts	2 (5)
125	7.5	46	St 1			460		melts	
	n.i.					450		melts	
	6.9	39	St 1			450		melts	
	n.i.					540		melts	
	5.9	18	St 1			510		melts	
	7.2	76	St 1			480		melts	
	n.i.					590		melts	
125	7.3	81	St 1		10/100		420		2 (5)
60	7.2	103	St 1		10/30		430		5
30	8.9	213	St 2 yes		100/300				5
			yes		100/300				
45	8.8	245	St 2	7		490	440	melts	
30	9.4	269	St 2			550		melts	5
15	9.8	173	St 1			520		melts	
			(St 2)						5

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Polymethacrylate, emulsion polymerisate	0404				100		93	59	18	
Polymethacrylate/polymeth- acrylic acid, copolymer	0406		100	86	48	100			73	
Polymethacrylimide	0408		100	58	28	100			112	
Polymethacrylimide	0407		100	45	15	100			135	
Polymethylmethacrylate	2994					100			98	
Polymethylmethacrylate	1550	20	6 100	1		1			900	
Polymethylmethacrylate mix	5407			100		87 100	26		43	0.8 0.8
Polymethylmethacrylate/poly- butylmethacrylate, copoly.	2262	50	18						500	
Polymethylmethacrylate/poly- butylmethacrylate, copoly.	2263	38	19						600	
Polyphenylmethacrylate, containing siloxane	5357					100	85	54	19	0.6
Polypropene	4440		100							
Polypropylene	0409				92		61	40	25	
Polypropylene	0410				90		45	24	35	
Polypropylene	1727	99	97	90		55 100	24		57	
Polypropylene	1311		100	92		51 100 100	21 52 52		61 30 30	
Polypropylene	0411	100		12				17	162	
Polypropylene	1803	98	33 100	1		100			290	
Polypropylene	1812	60	15	3		2			460	0.4
Polypropylene	1813	46	8	4					550	
Polypropylene	1765	40	1						590	
Polypropylene	1764	10 100	1						760	
Polypropylene	0412	10	1						760	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	10.1	202	St 2			450		melts	5
30	8.3	85	St 1			540		melts	3
60	10.3	108	St 1 St 1			490		melts	5
30	9.6	125	(St 2) St 1			530		melts	5
			(St 2) yes		30/300				5
			St 1						5
<30	8.2	100	St 1						
30	7.3	36	St 1			480			
	6.7	31	St 1			470			
30	9.2	203	St 2						5
20			yes				400	melts	
	8.4	101	St 1			410		melts	3 (5)
15			(St 2)						
15	8.4	123	St 1 (St 2)			440		melts	3 (5)
			(St 2)						3(3)
15									3(3)
15	7.7	93	St 1		<10 <10 n.ind.		410		
	7.7	38	St 1			440		melts	2 (5)
100			St 1						
100			St 1						3(5)
125	6.1	33	St 1		>10 <sup>6</sup>		410		
	6.2	27	St 1				310		
200			St 1						5(5)
200			St 1						3(3)
	n.i.					(440)			

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Polypropylene chips	0413	5	100			100			1750	
Polystyrene	4412		100			100				
Polystyrene	4435		100			100				
Polystyrene	2720					100		120		
Polystyrene	5268	95	85 100	51		11	1	120		0.1 0.1 0.1
Polystyrene, drying plant	5096	93	87 100	44		17	8	150		0.3 0.3 0.3
Polystyrene	5267	85	64 100	42		20	5	160		0.1 0.1 0.1
Polystyrene	2793					100		240		
Polystyrene, recycling mill	5046	75	46 100	21		10	4	290		
Polystyrene	5095	50	26 100	6		2		500		0.5 0.5 0.5
Polystyrene	1538	20	8 100	2				1200		
Polystyrene rigid foam	0414		100			100				
Polystyrene rigid foam	0415	31				100		650		
Polystyrene rigid foam	0416	30		10	5			760		
Polystyrene, copolymer	2264			32	11			155		
with methyl methacrylate butadiene styrene	2265			33	12			160		
Polystyrene, expandable	5488	94	92 100	87		67	41	40		0.7 0.7 0.7
Polystyrene, expandable (EPS)	5419	19	9 100	3		2		890		0.6 0.6
Polystyrene/titanium dioxide (67:33)	4413		100			100				
Polyurethane	0928	100	99	97		94	85	3		
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	n.i.		(St 2)			n.i.u.950		melts	1
25	4.3	12	St 1				450	melts	
25			yes yes		30/100		460	melts	
15			(St 2)						3(5)
30	8.5	142	St 1						5
15			St 1 yes		100/300				3(5)
30			(St 2)						3(3)
30			St 1						5
30			St 1						5(5)
15			St 1						3 (3)
400	5.4	14	St 1						
	8.4	23	St 1						
30	8.4	110	St 1				450	melts	
15	8.7	107	St 1				450	melts	
30	8.2	173	St 1						5
100			St 1						5
45	3.7	3	St 1				500	480	melts
15	7.8	156	St 1						5

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Polyurethane, foamed, dust	1314					100	88	61	16	1.3
Polyurethane, foamed, meal	5058	100	98 100	84		100	88 34	61	16 63	1.3 4.6 3.6
Polyurethane, abrasion from mixing and conveying machines	1843	94	87 100	67		100	70 36 17	42	24 85	3.6
Polyurethane	5008	84	73 100	60		100	40	20	96	
Polyurethane, meal	2723					100			100	
Polyurethane, foamed, dust from sawing and rasping	5602		100	83		11 100	3		105	1.2 1.2
Polyurethane, powder	5346	100	85 100	39		13	4		150	0.4 0.4
Polyurethane	5009	99	76 100	27		100	25 9 3	6	36 175	0.4 1.9
Polyurethane, sawing dust	0935	88	61 100	15		100	6 2		240	
Polyurethane, cutting dust	1562	81	60 100	16		100	2		240	
Polyurethane, from mill unit	5403	74	51 100	19		100	2		249	1.9 1.9
Polyurethane	5117	53	50 100	38		9 20	1 16		82 250	1.9 2.6
Polyurethane, foamed, grinding and cutting dust	5564	96	50 100	10		100	62 3	34	27 250	0.6 0.6 2.2
Polyurethane, abrasion from mixing and conveying machines	1313	74	46 100	27		13	2		260	0.8 0.8
Polyurethane, foamed, sawing of blocks	1969	69	46 100	15		100	33 3	8	39 310	
Polyurethane, cutting dust	0936	75	35 100	5		100			330	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com- bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	8.6	145	St 1		<10 10/100 n.ind.		490		3
30			St 1						2
30			(St 2) St 1						5
30	8.3	154	St 1 yes		100/300				3
30			St 1						2
250 125	6.2 6.1	73 29	St 1 St 1 St 1		10/100		440		2(5) 5
15			St 1						2
30			St 1						2
30			St 1		100/1000		500	550	2
30	7.7	121	St 1		10/100		460		5
30			St 1						2
30	8.3	125	St 1		10/100		460	480	5
30			St 1						2
100			St 1						2(5)

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.-No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Polyurethane, foamed, granulate	5457	20	12	2					1200	2.7
			100							1.0
Polyurethane, foamed (with approx. 40 % glass fibres)	5479	74	56	39		22	9		200	1.6
			100			100				1.6
Polyurethane, rigid, grinding dust	0417		100			100				1.6
Polyurethane, rigid	0929		100	71		6	1		120	
						100				
Polyurethane, rigid foam, grinding dust	5255		100	96		57	27		50	1.0
						100	44	18	35	1.0
						100	44	18	35	1.0
Polyurethane, rigid foam, sawing dust	0937		100	83		13	2		110	
						100				
Polyurethane, rigid foam	5115	99	94	58		6	2		115	1.9
			100							1.1
							100			1.1
Polyurethane, rigid foam, grinding dust	5256	99	92	42		5			135	1.5
			100							1.5
Polyurethane, rigid foam	5024	91	75	24		4	3		180	
			100							
						100				
Polyurethane, rigid foam, from wire cutting machines	5116	92	70	20		4	1		200	2.3
			100							1.5
						100				1.5
Polyurethane, rigid foam	5026	86	63	26		5	2		200	
			100							
						100				
Polyurethane, rigid foam	5025	93	67	21		3	2		200	
			100							
						100				
Polyurethane, rigid foam	5021	85	69	22		1			210	
			100							
Polyurethane, rigid foam, processing of laminates	5022	78	61	26		3	1		220	
			100							
				100						
Polyurethane, rigid foam	0938	67	52	22		5	1		260	
			100							
						100				
Polyurethane, rigid foam, sawdust	5258	44	36	6		1	1		540	1.9
			100							1.9
Polyurethane, rigid foam, sawdust	5038	45	31	12		3			600	
			100							
				100						

Lower Explos. Limit g/m <sup>3</sup>	Max. Explos. Over-pressure		K <sub>St</sub> Value bar m/s	Explo- sibility	Limit. Oxy- gen Conc. % by vol.	Minimum Ignition Energy mJ	Ignition Temperature		Glowing Tempera- ture °C	Com- busibil- ity
	bar	°C					G-G °C	BAM °C		
30				St 1						BZ
30				St 1						5
30				St 1						3
30				St 1					510	3
30	8.4		138	St 1		<10 10/100 n.incl.		490	550	2
15				(St 2)						2
30				St 1						2
30	7.6		107	St 1						5
15				(St 2)						5
30				St 1						2
30				(St 2)						5
15				(St 2)						5
250	6.4		26	St 1					n.g.u.600	2
250	5.8		20	St 1		10 <sup>6</sup> /10 <sup>7</sup>		510		2
				St 1				440	n.g.u.600	2
30				St 1						2
30				St 1						5
30				St 1						2

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Polyurethane, rigid foam	5027	34	16 100	13		6	3		820	
Polyurethane, soft foam powder	5072		100	88		26 100	4 11	2	83 42	1.6 1.6
Polyurethane, soft foam powder	5138		100 100	77 77		25 25 100	5 5		95 95	2.2 0.5 0.5
Polyurethane, mixed with Al, grinding and sawdust	1312	97	94 100	83		57	31		52	
Polyurethane, containing pentane, waste granulate	5546	70	54 100	24		2	75	14	27 240	1.5 1.5 1.5
Polyurethane, thermoplastic, fine dust	5007	46	15 100	3		1			520	
Polyurethane/aluminium	1648	92	88 100	80		68	39		40	
Poly(vinyl acetate), copolymerised	0418		100			100	83	50	20	
Poly(vinyl acetate), copolymerised	0419		100		66	100	22	8	52	
Poly(vinyl acetate), copolymerised	0420		100	92	54	100	25	4	63	
Poly(vinyl acetate), copolymerised with ethylene	0421		100	86	55	100	21	16	65	
Poly(vinyl acetate), copolymerised with ethylene	0422	21	100			100			940	
Poly(vinyl acetate), copolymerised with ethylene	0423	16	100			100			1000	
Poly(vinyl acetate), copolymerised with ethylene (3 % silicic acid)	0428	87	100	6		100			330	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15			(St 2)						5
15			(St 2)		10/100		440		2(5)
30	8.5	132	St 1						3
30			St 1		10/100		480		3
100			St 1						3
30			St 1						2
30			St 1						2(5)
100			St 1						3
60	8.7	86	St 1			660		melts	2
30	8.8	148	St 1			570		melts	5
30	8.1	90	St 1			670		melts	3
30	8.2	96	St 1			520		melts	5
	n.i.		St 1			780		melts	3
30	n.i.		St 1			760		melts	3
30	4.9	12	St 1			560		melts	3
30			(St 2)						3

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Poly(vinyl acetate), copolymerised with ethylene (10 % silicat. filler)	0424		100		82		50	15	32	
Poly(vinyl acetate), copolymerised with ethylene (10 % silicat. filler)	0425		100		81	100	34	16	36	
Poly(vinyl acetate), copolymerised with ethylene (10 % silicat. filler)	0426		100		80	100	45	17	36	
Poly(vinyl acetate), copolymerised with ethylene (10 % silicat. filler)	0427		100		59	100	33	3	53	
Poly(vinyl acetate), copolymer. with ethylene, vinyl alcohol and silitin	0429		100		86	100	51	26	31	
Poly(vinyl acetate), copolymerised with higher fatty acid vinyl ester	0430		100		91	100	40	10	37	
Poly(vinyl acetate), copolymerised with higher fatty acid vinyl ester (10 % silicat. filler)	0431		100		85	100	44	4	36	
Poly(vinyl acetate), copolymerised with vinyl alcohol	0432		100		76	100	33	11	43	
Poly(vinyl acetate), copolymerised with vinyl alcohol, vinyl laurate, silitin	0433		100		89	100	48	22	39	
Poly(vinyl alcohol)	0434		100		74	100	55	44	26	
Poly(vinyl alcohol)	0437		100	75	54	100	33		64	
Poly(vinyl alcohol)	2856					100			68	
Poly(vinyl alcohol)	0438	90	100	67	44				97	
Poly(vinyl alcohol)	0440	80	100	48	37	100			130	
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	8.6	119	St 1			520		melts	5
60	8.7	116	St 1 St 1			500		340	3
30	8.5	100	St 1 St 1			510		melts	5
30	8.3	100	St 1 St 1			510		melts	5
30	8.4	138	St 1 St 1			500		365	3
30	8.3	111	St 1 St 1			540		melts	5
15	8.3	95	St 1 St 1			610		melts	5
30	8.0	125	St 1			560		melts	5
30	8.8	117	St 1 St 1			530		melts	5
60	8.9	128	(St 2) St 1			460		melts	5
60	8.5	152	(St 2) St 1			400		melts	3
60	8.5	103	St 1 yes St 1		10/100	450		melts	5
60	8.3	135	St 1 St 1			490		melts	3
			St 1						

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Poly(vinyl alcohol)	0441	82	100	44	27	100			160	
Poly(vinyl alcohol)	2857					100			175	
Poly(vinyl alcohol)	2858								230	
Poly(vinyl alcohol), low electrolyte content	0435		100	76	66		51	43	30	
Poly(vinyl alcohol), partially saponified	0436		100		57		29	9	56	
Poly(vinyl alcohol), partially saponified	0442	82	100	33	23				210	
Poly(vinyl alcohol), fully saponified	0439		100	60	38		24		100	
Poly(vinyl butyral), high polymer	0443		100	93	55		11		65	
Poly(vinyl butyral)	4439	81	100			100 1			350	
Poly(vinyl butyral), low polymer	0444	53	100	32	15				450	
Poly(vinyl chloride)	2983								<10	
Poly(vinyl chloride)	0445						100		<10	
Poly(vinyl chloride)	0446						100		<10	
Poly(vinyl chloride)	2703								<10	
Poly(vinyl chloride)	4019								<10	
Poly(vinyl chloride)	1962					100	92	75	11	
Poly(vinyl chloride)	2734								11	
Poly(vinyl chloride)	1960					100	89	71	12	
Poly(vinyl chloride)	1961					100	87	70	12	
Poly(vinyl chloride), dust deposits	1891			100		97	86		13	
Poly(vinyl chloride)	2981					100			14	
Poly(vinyl chloride)	2982								14	
Poly(vinyl chloride)	4018								16	
Poly(vinyl chloride)	2733								17	
Poly(vinyl chloride)	2780								17	
Poly(vinyl chloride)	4040								<20	
Poly(vinyl chloride)	0447		100				84	50	20	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
125	6.2	20	St 1			410		melts	5
			St 1 yes yes		100/300 100/300				
125	6.8	25	St 1			440		melts	5
60	8.3	83	St 1			460		melts	5
125	7.2	42	St 1			570		melts	5
60	5.9	22	St 1			630		melts	5
30	8.9	147	St 1			440		melts	2 (5)
			(St 2)					melts	
30			yes				410	melts	
15	8.3	133	St 1			460		melts	2 (5)
			(St 2)						
30	8.4	168	St 1		>1000				
45	9.6	146	St 1						
					>100 >1000				
15			St 1		>1000				2
15			St 1			680		430	2
15			St 1						2
30			St 1						2
					>1000 >1000 >1000 >1000 >1000 >1000				
60	7.6	47	St 1			780		n.g.u.450	2
			St 1						

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Poly(vinyl chloride)	4041								20	
Poly(vinyl chloride)	2848								20	
Poly(vinyl chloride)	4042								21	
Poly(vinyl chloride), dust deposits	1315	99	98	96		90	68		22	
Poly(vinyl chloride)	1316					100	90	56	18	
Poly(vinyl chloride)	2827					100	93	39	22	
Poly(vinyl chloride)	2847								22	
Poly(vinyl chloride)	2847								22	
Poly(vinyl chloride)	2851								24	
Poly(vinyl chloride)	2781								25	
Poly(vinyl chloride)	2985								25	
Poly(vinyl chloride)	2755								27	
Poly(vinyl chloride)	2849								27	
Poly(vinyl chloride)	2736								30	
Poly(vinyl chloride)	2742								30	
Poly(vinyl chloride)	2850								30	
Poly(vinyl chloride)	2852								32	
Poly(vinyl chloride)	4028								33	
Poly(vinyl chloride)	4038								33	
Poly(vinyl chloride)	4044								35	
Poly(vinyl chloride)	2778								36	
Poly(vinyl chloride)	2741								38	
Poly(vinyl chloride)	2765								38	
Poly(vinyl chloride)	2732								44	
Poly(vinyl chloride)	2266				81		28	12	46	
Poly(vinyl chloride)	2731								51	
Poly(vinyl chloride)	2783								55	
Poly(vinyl chloride)	2730								56	
Poly(vinyl chloride)	2753								57	
Poly(vinyl chloride)	2735								62	
Poly(vinyl chloride)	0448				53				69	
			100							
						100				
Poly(vinyl chloride)	2782								75	
Poly(vinyl chloride)	2784								83	
Poly(vinyl chloride)	2693								87	
Poly(vinyl chloride)	2692								88	
Poly(vinyl chloride)	2674								97	
Poly(vinyl chloride)	0451			41	35				198	
Poly(vinyl chloride)	1963	100	98	69		29	11		100	
						100				
Poly(vinyl chloride)	4047								100	
Poly(vinyl chloride), ground	5185	72	68	61		27	12		100	0.7
			100							0.7
						100				0.7

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility	
						G-G	BAM			
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ	
30	8.3	126	St 1		>1000				2	
60			St 1		>10000		n.i.u.600		2	
			yes		yes	7/13				
			yes		yes	30/100				
			yes		yes	100/300				
			yes		yes	30/300				
			yes		yes	10/30				
			yes		yes	1000/3000				
			yes		yes	10/30				
			yes		yes	>1000				
30	9.1	149	St 1		>1000	490		330		
			yes		300/1000					
			yes		4/13					
					>1000					
100	n.i.		St 1			710		n.g.u.450	1	
			yes		>1000					
					100/300					
					>1000					
					>1000					
					>2					
15	6.7	27	St 1			700		n.g.u.450	2	
			St 1					530		
15					>1000	710				
15			St 1						2	

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Poly(vinyl chloride)	0452		100	64	31	100	24		107	
Poly(vinyl chloride)	2675								107	
Poly(vinyl chloride)	2689								110	
Poly(vinyl chloride)	2690								110	
Poly(vinyl chloride)	2729								110	
Poly(vinyl chloride)	2688								112	
Poly(vinyl chloride)	2620								115	
Poly(vinyl chloride)	2691								115	
Poly(vinyl chloride)	2754								120	
Poly(vinyl chloride)	4048								120	
Poly(vinyl chloride)	2929								121	
Poly(vinyl chloride)	2928								128	
Poly(vinyl chloride)	2267			46	15				135	
Poly(vinyl chloride)	4049								135	
Poly(vinyl chloride), milling dust	1889	93	80 100	42		8	2		140	
Poly(vinyl chloride)	2638					100			140	
Poly(vinyl chloride)	4043								145	
Poly(vinyl chloride)	4020								170	
Poly(vinyl chloride)	2984								180	
Poly(vinyl chloride)	4045								180	
Poly(vinyl chloride)	2268	72		40	25				190	
Poly(vinyl chloride), cutter mill deposits	3135	83	63 100	28		3	1		200	0.2 0.2 0.2
Poly(vinyl chloride)	2752					100			200	
Poly(vinyl chloride)	2269	90		17	8				230	
Poly(vinyl chloride)	2779								230	
Poly(vinyl chloride)	2697								290	
Poly(vinyl chloride)	4046								300	
Poly(vinyl chloride), 2nd choice	5495	81	74 100	40		7	2		175	14 0.3
Poly(vinyl chloride) mixture	0472	100	100	65	23		4		105	
Poly(vinyl chloride) mixture	0473		100	60	6	100			115	
Poly(vinyl chloride) mixture	1867	99	96	44		100 15 100	8		130	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100	7.6	46	St 1			710		n.g.u.450	2
			St 1		>2				
					>1000				
					>1000				
					>1000				
			yes		100/1000				
					>1000				
			yes		30/100				
					>1000				
			yes		100/300				
30	7.7	68	St 1		300/3000	530		340	
					>1000				
30			St 1				n.i.u.600		2
					>1000				
					>1000				
					>1000				
					>1000				
	n.i.		St 1			690		melts	2
			St 1						2
	n.i.		yes		300/1000				
						590		340	
					>1000				
					>1000				
					>1000				
	n.i.								2
									2
						730		n.g.u.450	2
30			St 1						2
	n.i.					590		n.g.u.450	2
30			St 1						2
15			St 1						2

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Poly(vinyl chloride) mixture (approx. 20 % PVC, 55 % vinyl chloride poly- acrylate graft copolymers)	5088	96	88	22		3	1		200	0.2
			100			18	2		85	0.2
				100						
Poly(vinyl chloride) mixture (approx. 50 % PVC, 30 % ABS)	5087	91	84	61		13	5		105	0.4
			100			100	34	16	36	0.4
Poly(vinyl chloride) mixture (approx. 55 % PVC, 35 % natural graphite)	5089	94	91	72		34	32		75	0.3
			100			100	95	73	15	0.3
Poly(vinyl chloride) mixture (approx. 85 % PVC, 10 % MBS)	5090	99	95	61		34	19		90	0.4
			100							
Poly(vinyl chloride) mixture (PVC with approx. 15 parts additives of which 12 parts acrylic copolymers)	5144		100	71		100	55	25	28	0.4
						10	4		110	0.4
Poly(vinyl chloride) mixture, 54 parts plasticiser and 70 parts filler to 100 parts PVC	0474	100		48	7				130	
			100				100			
Poly(vinyl chloride) mixture, 13 parts filler to 100 p. PVC	0475								142	
Poly(vinyl chloride) mixture (PVC, barium sulphate, lead stearate)	1635		100	46		32	32		145	
						100				
Poly(vinyl chloride) mixture (PVC, lead stearate, lead chromate, colour)	1634		100	12		2			180	
						100				
Poly(vinyl chloride), with additives	5526	100	98	60		16	10		100	0.2
			100							0.2
				100						
Poly(vinyl chloride), with additives	5528	96	92	70		10	5		100	0.1
			100							0.1
							100			
Poly(vinyl chloride), with additives	5529	98	96	54		15	13		100	0.3
						100				
Poly(vinyl chloride), with additives	5525	98	91	47		6	4		135	0.3
			100							
Poly(vinyl chloride), with additives	5527	95	85	39		4	2		150	0.3
			100							0.3
						100				
Poly(vinyl chloride), with additives	5524	94	85	36		4	2		160	0.4
			100							0.4
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15			St 1		>10000		600		2
15			St 1		10/100		450		2
100			St 1		>10000		490		2
15			St 1		>10000		580		2
200			St 1		10/100		550		2
60	7.1	55	St 1			530		380	2
	n.i.		St 1			680		440	2
30			St 1						2
30			St 1						2
15			St 1						2
15			St 1						2
100			St 1						2
15			St 1						2
15			St 1						2
15			St 1						2

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Poly(vinyl chloride), copolymer	0450				38		9		85	
Poly(vinyl chloride), copolymer	0453				24				109	
Poly(vinyl chloride), copolymer	0455			41					140	
Poly(vinyl chloride), dryblend mixer unit	5394		100	89		19 100	12		80	0.2 0.2
Poly(vinyl chloride), emulsion	1569					100	88	78	<10	
Poly(vinyl chloride), emulsion	0458				98		89	71	14	
Poly(vinyl chloride), emulsion	1568					100	89	63	16	
Poly(vinyl chloride), emulsion	5078					100	86	59	18	0.3
Poly(vinyl chloride), emulsion	1317								24	
Poly(vinyl chloride), emulsion, ground	5111			100		96	56		30	0.6
Poly(vinyl chloride), emulsion	0460				76		37	21	43	
Poly(vinyl chloride), emulsion, ground	5113		100	98		100 73	30		45	0.3 0.3
Poly(vinyl chloride), emulsion, ground	5112		100	98		100 74	25		46	0.3 0.3
Poly(vinyl chloride), emulsion	1318	100	99	69		43 100	28		75 33	
Poly(vinyl chloride), emulsion, 90.5 % PVC, 2.5 % emulsi- fier, copolymer with 6.3 % butadiene	2278 2279 0461				91 65 84		40 26 14	24 13	34 55 73	
	2280		100	94	31	100	2		84	
Poly(vinyl chloride), emulsion, 2.5 % emulsifier, copoly- mer, 4 % vinylacetate	0456 2276 2277				98 70 70		96 37 15	87 23 5	<10 45 57	
Poly(vinyl chloride), emulsion/ emulsifier (approx. 97:3)	0457 2270 2271 2272 2273 2274 2275				98 99 97 81 60 66 80		96 78 73 40 31 13 19	85 50 26 23 14 5	<10 20 25 40 51 60 100	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	n.i.					(610)		n.g.u.490	
125	5.7	25	St 1			(550)		n.g.u.490	
	n.i.					(580)		n.g.u.490	
30			St 1						2
15			St 1						2
	8.5	44	St 1			700		n.g.u.450	2
30			St 1						2
30			St 1						2
125	8.3	112	St 1		>10 <sup>5</sup>		n.i.u.600		2
			yes		1000/10000				
125	7.9	59	St 1		2·10 <sup>6</sup> /10 <sup>7</sup>		n.i.u.600		2
	9.4	91	St 1			n.i.u.850		n.g.u.450	2
30			St 1						2
			St 1				600		2
125	8.2	62	St 1		2·10 <sup>6</sup> /10 <sup>7</sup>		600		2
			St 1						
250	8.0	53	St 1		>10 <sup>6</sup>		600		2
			St 1		>10000				
125	8.3	66	St 1		>1000	680		n.g.u.450	
125	8.5	56	St 1		>1000	710		n.g.u.450	
125	9.3	101	St 1			700		n.g.u.450	
			St 1						2
125	7.2	31	St 1		>1000	700		n.g.u.450	
			St 1						
125	8.5	44	St 1			730		n.g.u.450	2
125	8.9	49	St 1		>1000	690		n.g.u.450	
125	7.9	33	St 1		>1000	800		390	
60	8.5	43	St 1			710		n.g.u.450	2
125	7.9	38	St 1		>1000	770		400	
125	8.2	42	St 1		>1000	750		n.g.u.450	
125	8.1	44	St 1		>1000	720		n.g.u.450	
125	8.5	63	St 1		>1000	790		350	
125	8.4	33	St 1		>1000	740		n.g.u.450	
125	8.2	40	St 1		>1000	740		350	

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Poly(vinyl chloride), emulsion copolymer with vinylacetate	0459		100		86		44	17	35	
Poly(vinyl chloride), emulsion copolymer with vinylacetate	0462	89	100	33	23	100			210	
Poly(vinyl chloride), graft polymer	2281	95	100	33	17	100	2		195	
Poly(vinyl chloride), mass	0463		100		60		29	19	54	
Poly(vinyl chloride), micro-suspension	1319					100	82	42	22	
Poly(vinyl chloride), micro-suspension	1938					100	26	8	36	
Poly(vinyl chloride), soft, grinding dust	5196	98	80 100	39		100	15 5		160	0.3 0.3 0.3
Poly(vinyl chloride), soft, grinding dust	5195	89	46 100	18		9	6		280	0.2 0.2 0.2
Poly(vinyl chloride), special copolymer	0449		100	92	47	100	16		73	
Poly(vinyl chloride), suspension	1570					100	60	19	30	
Poly(vinyl chloride), suspension	0465		100		64	100	9		60	
Poly(vinyl chloride), suspension	1320								<90	
Poly(vinyl chloride), suspension	0468		100	93	20				95	
Poly(vinyl chloride), suspension	5079		100	68		100	5		115	0.2 0.2
Poly(vinyl chloride), suspension	1321		100	60		100	1		120	
Poly(vinyl chloride), suspension	5076	100	98 100	100	51	2	5	1	97 124	0.1 0.1
Poly(vinyl chloride), suspension	5077		100	46		100	1		130	0.1 0.1
Poly(vinyl chloride), suspension	0471			30					137	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	8.2	95	St 1			780		n.g.u.450	2
60	8.3	123	St 1 St 1			770		n.g.u.450	2
250	8.6	100	St 1 St 1		>30	480		n.g.u.450	2
	8.6	93	St 1			760		n.g.u.450	2
30			St 1						2
15			St 1		>10000		n.i.u.600		2
15			St 1						2
30			St 1						2
100	n.i.		St 1			670		n.g.u.450	2
15			St 1						2
15			St 1						2
	n.i.					n.i.u.850		n.g.u.450	1
100			St 1		>10000				
	n.i.					620		n.g.u.450	2
30			St 1						2
15			St 1				n.i.u.600		2
15			St 1		>10000		n.i.u.600		2
	n.i.						n.i.u.600		2
15			St 1				n.i.u.600		2
15			St 1				n.i.u.600		2
	n.i.					n.i.u.800		n.g.u.450	

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Poly(vinyl chloride), suspension	1879		100	37 100		1	1		160	
Poly(vinyl chloride), suspension	1571	100	96	10		1 100			210	
Poly(vinyl chloride), suspension, copolymer with vinylacetate	0466		100	62	57		11		65	
Poly(vinyl chloride), suspension, copolymer with vinylacetate	0467	99	100	69	40		100		87	
Poly(vinyl chloride), suspension, graft polymeri- sate on ethylenevinylacetate copolymer	0464		100		58		22	12	60	
Poly(vinyl chloride), suspension, graft polymeri- sate on ethylenevinylacetate copolymer	0469		100	66	23		100		105	
Poly(vinyl chloride), suspension, polymerisate with vinylacetate	0470		100	74	6		100		105	
Poly(vinyl chloride), suspension/softener (60:40)	1322	100	99	39 100		2 7	2 2		160 100	
Poly(vinyl chloride), terpolym. (93 %), 5 % vinylacetate, 2 % acrylic acid	2282				100		81	74	<10	
Poly(vinyl chloride)/acrylate (50:50)	2824								50	
Poly(vinyl chloride)/copolym. (82:18)	0454	59	100	43	16				137	
Poly(vinyl formal) foam	0939	94	47 100	11		100 2			280	
Powder paint, thermosetting, based on acrylic resin	5484		100	97		93 100	76		12	0.5 0.5
Powder paint, thermosetting, based on acrylic resin	5550			100 100		98 98	83 83		13 13	0.5 0.5
Powder paint, thermosetting based on acrylic resin	5486			100		99	87		14	0.7
Powder paint, thermosetting, based on acrylic resin	5483			100		99	74		20	0.5
Powder paint, thermosetting, based on acrylic resin	5547			100 100		96 96	69 69		21 21	0.4 0.4

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			St 1						2
15			St 1						2
60	7.5	35	St 1			800		n.g.u.450	2
250	7.4	47	St 1			650		n.g.u.450	2
60	8.3	98	St 1			530		n.g.u.450	2
125	7.7	45	St 1			510		n.g.u.450	2
	n.i.		St 1			670		n.g.u.450	2
15	7.6	74	St 1		10/100		320		2
125	7.6	74	St 1						2
60	8.6	55	St 1			680		n.g.u.450	
					>1000				
125	7.9	38	St 1			560		n.g.u.460	2
			St 1						
100			St 1						3 (5)
30	9.0	228	St 2						3
15			(St 2)		1/3		400	550	5
30	9.2	254	St 2		3/10 n.ind.				5
30	9.1	231	St 2						5
30			(St 2)		1/3		390	n.g.u.600	5
					10/30 n.ind.				

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Powder paint, thermosetting, based on acrylic resin	5485			100		89	60		27	0.3
						100				0.3
Powder paint, thermosetting, based on acrylic resin	5549			100		93	60		27	0.4
						100	79	43	22	0.4
						100	79	43	22	0.4
Powder paint, thermosetting, based on acrylic resin	5548			100		87	56		29	0.4
						100	70	35	25	0.4
						100	70	35	25	0.4
Powder paint, thermosetting, based on epoxy/polyester	5487		100	99		80	43		37	0.3
						100				0.3
Powder paint, thermosetting, based on epoxy/polyester	5551		100	99		78	42		38	0.5
						100	67	35	25	0.5
Powder paint (8.6 % aluminium)	2760									
Powder paint (8.6 % aluminium)	2761								24	
Powder paint, based on epoxy resin/ basic hardener (approx. 100 % organic)	0488				100		70		29	
						100				
Powder paint, based on epoxy resin/ basic hardener (approx. 50 % organic)	0489				99		45	19	34	
						100				
Powder paint, based on epoxy resin/ acidic polyester resin (approx. 60 % organic)	0490				100		64	21	27	
						100				
Powder paint, based on polyurethane (approx. 50 % organic)	0491				100		66	22	29	
						100				
Powder paint, based on polyurethane resin (approx. 5 % aluminium)	2283				85		50	22	32	
<b>Resin,</b> powder, dry	5399			100		98	90		10	0.8
Resin, powder, dry	5397		100	99		97	59		19	0.7
Resin, powder, dry	5420					100	91	36	21	0.3
Resin, powder, dry	5396		100	98		90	68		22	0.7
						100				0.7
Resin, powder	1299		100	96		79	55		29	
						100	70	45	22	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	8.9	149	St 1						2
30			(St 2)		1/3 3/10 n.ind.		400	n.g.u.600	3
30			(St 2)		3/10 10/30 n.ind.		430	n.g.u.600	3
30	9.2	202	St 2						2
15			(St 2) yes		10/30 1000/3000		470	n.g.u.600	2
			yes		30/100				
30	8.9	100	St 1 (St 2)			540		melts	2 (3)
30	7.1	53	St 1 St 1			600		melts	2 (2)
30	7.7	110	St 1 St 1			580		melts	2 (2)
30	7.8	89	St 1 St 1			490		melts	2 (2)
15	9.4	182	St 1			520		n.g.u.450	
30			St 1				500		4
30			St 1				530		4
30			St 1				n.i.u.600		2
30			St 1				590		4
15			St 1		10/100		510		2

<b>Product group 1.2.1</b> <b>Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Resin, powder, dry	5491		100	95		85 100	41		35	2.0 2.0
Resin	0295				67		44		40	
Resin	4357								<63	
Resin, powder, dry + FeCl <sub>3</sub>	5398			100		97	71		20	0.8
Resin, acrylic	0296				95		39	16	37	
Resin, acrylic	4007								40	
Resin, acrylic	4006								49	
Resin, acrylic	4008								60 60	
Resin, acrylic	4016								80	
Resin, acrylic	0901		100	23		2 100			160	
Resin, alkyd melamine	4401		100							
Resin, alkyd melamine	4402		100							
Resin, alkyl sulphonic acid formaldehyde condensation	1292	100	98	86		53 100	31 73		58 25	
Resin, alkyl sulphonic acid formaldehyde condensation	1894	100	97	70		31 100	5	35	89	
Resin, alkyl sulphonic acid formaldehyde condensation	1293	100	97	71		28 100	13 40	7	98 36	
Resin, balsam, Honduras	5422			100 100		97 97	82 82		13 13	1.1 1.1
Resin, bisphenol polyester, high molecular	0297			44	11				135	
Resin, carbon fibre epoxy	0910			100		97 100	84		13	
Resin, cumarone	0298				28				135	
Resin, cumarone	4023		100			100			165 165	
Resin, epoxy	3491	99	99 100	99		98 100	93		<10	0.6 0.6 0.6
Resin, epoxy	1623			100		98	85		13	
Resin, epoxy	0300				96		70		21	
Resin, epoxy	0301				90		70		21	
Resin, epoxy, saw dust	0902	100	98	90		77 100	58		25	
Resin, epoxy	0303				92		60		26	
Resin, epoxy	0304				95		60	36	26	
						100				



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			St 1				n.i.u.600		3
30	8.7	108	St 1	10		460		melts	
100			yes				380		4
	7.8	174	St 1		30/300				
			yes		10/30				
			yes		6/13				
			yes		100/1000 n.ind.				
			yes		100/1000				5(5)
60			yes				460	melts	
60			yes				470	melts	
60	7.5	109	St 1		1000/10000		500	400	2
125	7.6	124	St 1						3
			St 1						
60	8.0	138	St 1		100/1000		530	420	3
30	9.5	282	St 2		<5		330		5(5)
	6.8	36	St 1		<5 n.ind.				
									4
15	7.5	124	St 1						
15	8.2	161	St 1			480		melts	
			(St 2)						3(5)
			yes		<2				
					<2 n.ind.				
60	7.4	194	St 1						4
<15	8.7	169	St 1		>3		530	240	4
	8.8	243	St 2						2(2)
	8.8	174	St 1						
100			St 1						2
	8.2	205	St 2						
30	7.9	129	St 1			510		melts	2
			St 1						

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Resin, epoxy	0305				100		60		28	
Resin, epoxy	0903		100			82 100			28	
Resin, epoxy	4406		100			87 100		29	30	
Resin, epoxy	0306				96		52		31	
Resin, epoxy	0307				95		47		33	
Resin, epoxy	0308				88		48		33	
Resin, epoxy	0309				93		43	18	34	
Resin, epoxy	2224				97		47	22	34	
Resin, epoxy	2225				88		45	23	36	
Resin, epoxy	4405		100			73 100		26	39	
Resin, epoxy	0904		96			60 100			49	
Resin, epoxy	0905	100	96	80		46 100	21		70	
Resin, epoxy	3492	84	59 100	24		9	4		225	0.7
Resin, epoxy	5453	31	14 100	4		1			700	0.3 0.3
Resin, epoxy (83 % EP, 8 % Al)	0299				98		72	50	20	
Resin, epoxy (60 % EP, 36 % TiO <sub>2</sub> )	0302				99		67	43	23	
Resin, epoxy (glass fibre reinforced with flame retardant)	5067		100	75		54 100	46 75	46	43 22	0.5 0.5
Resin, epoxy, with inorganic fillers	0906	100	97	72		46 100	28		67	
Resin, epoxy, with adhesive properties	0907			100		96 100	46		33	
Resin, epoxy, with acid hardener	0908			100		82 100	38		40	
Resin, epoxy, with aluminium	2226				90		46		34	
Resin, epoxy, with aluminium	2227				96		47	22	34	
Resin, epoxy, pigmented with hardener	0909		95 100			30			100	
Resin, hydrocarbon	1572	93	86 100	72		100 39	19		82	
Resin, hydrocarbon modified	4014					100			10	
Resin, hydrocarbon modified	4012								10	
									13	
									13	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibil-ity
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15	8.0	175	St 1 (St 2)						3(3)
60	6.9 7.8 8.7 8.6 8.8	119 220 215 143 177	St 1 St 2 St 2 St 1 St 1			530	500	melts	
30	8.6 8.4	162 190	St 1 St 1			520 550		melts melts melts	
45			yes				525		5
30			(St 2)						2(2)
15			St 1						3
	6.2	43	St 1						3
100			St 1 St 2						2(3)
	9.7	232	St 2						
	7.8	155	St 1						
750	5.2	119	St 1		>10000		n.i.u.600		2
30	7.8	144	St 1						5
30			(St 2)						2(2)
15			(St 2)						2(2)
30	8.9 8.8	208 160	St 2 St 1			570 530		melts melts	
30			(St 2)						2(2)
15			(St 2) yes yes		4/7 6/13 n.ind. <2 <2 n.ind.				2(2)

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Resin, hydrocarbon modified	4015								15	
Resin, hydrocarbon modified	4013								15	
Resin, ion exchange	2766								18	
Resin, maleinate	2657								18	0.9
Resin, melamine	0911		100						32	0.9
Resin, melamine	0310				99	100	84	55	23	
Resin, melamine	0311				90	100	43	17	23	
Resin, melamine	0312		100		64		27	17	23	
Resin, melamine	0313					100			23	
Resin, melamine	5445	54	35	22		100	15	8	57	2.9
Resin, melamine, raw	2229		100	82	58		29	27	450	1.8
Resin, melamine, modified	0314			90	64		22		57	1.8
Resin, melamine, modified	0315		100		60	100	23	13	56	
Resin, melamine formaldehyde, modified with sulphonic acid	0912			100		100	96	61	62	
Resin, petroleum	4021					100			28	
Resin, phenolic	0316				100		99	94	165	
Resin, phenolic	0317				98		93	80	165	
Resin, phenolic (core material)	1295			100		97	86		<10	
Resin, phenolic	0318			100		97	86		11	
Resin, phenolic	2230				97		93	68	12	
Resin, phenolic	5127					100	77	58	12	
Resin, phenolic	2655						78	48	16	0.2
Resin, phenolic	1296	98	88	63		42	27		22	1.9
Resin, phenolic	0913	98	88	63		42	27		23	1.9
Resin, phenolic		100	84	46		22	13		80	1.2
			100						80	1.2
						100			150	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			yes		<2				
			yes		<2 n.ind.				
			yes		<2				
			yes		<2 n.ind.				
100			St 1		30/100				2(2)
125	10.2	110	St 1		3/5	840		n.g.u.485	2
	9.5	190	St 1		2/7 n.ind.				
125	9.7	88	St 1			470		500	2
			St 1						
60	10.5	172	St 1			470		n.g.u.450	2
			St 1						
30			St 1						2
	n.i.					n.i.u.850		n.g.u.450	
500	n.i.		St 1			n.i.u.850		melts	2
	5.4	15	St 1			n.i.u.950		n.g.u.485	2
30			St 1						2
200			St 1						2(2)
			yes		<2				
15	9.3	129	St 1		<2 n.ind.	610		n.g.u.450	2
15	9.6	198	St 1			530		n.g.u.450	
30	8.9	218	St 2		<10		540		2
					<10 n.ind.				
30	9.4	156	St 1			610		n.g.u.450	2
30	9.8	168	St 1			520		n.g.u.450	2
30	8.7	185	St 1						2
			yes		3/5				
30			St 1		2/7 n.ind.				
					<10		500		2(2)
					<10 n.ind.				
30			(St 2)						2(2)

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Resin, phenolic	1988	99	78 100	36		19	13		180	
Resin, phenolic, modified with natural resin	0321					100	95	84	10	
Resin, phenolic, modified	0320				82		49	32	33	
			100			100				
Resin, phenolic, with additives	0319				100		97		<10	
Resin, phenolic, with diazonaphthol sulphonic acid	1297	93	73 100	45		32	13		130	1.2
Resin, phenol-formaldehyde, hardened	0914	100	98	81		50 100	30		63	1.2
Resin, phenol-formaldehyde resorcinol, gelled	0915			100		97	86		12	1.2
Resin, polyamide	2231				95		84	64	15	
Resin, polyester	0322			36	18				162	
			100			100				
Resin, polyester	2232	66		30					280	
Resin, polyester	0323				15				290	
Resin, polymethacrylate	0916	56	33 100	15		6	2		420	
						100				
Resin, root	0918	90	63 100	43		26	14		160	
						100				
Resin, silicone	2934								11	
									11	
Resin, silicone	2935								28	
									28	
Resin, silicone	2966								28	
									28	
Resin, silicone	2233	91		59	39		20	13	100	
Resin, silicone	0917		80 100			30			120	
						100				
Resin, silicone	2617								130	
Resin, silicone	2618								160	
Resin, synthetic	2234							100	<10	
Resin, synthetic	1294								26	
									26	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			St 1						3
15	9.5	172	St 1			450		melts	2(5)
30	8.9	140	St 1			650		melts	2
30	8.4	142	(St 2) St 1						
30			(St 2)		<10		500	510	2
30			St 1						4
100			St 1						4
30	8.9	105	St 1			450		melts	
30	8.4	76	St 1			550		melts	2(3)
30	7.5	50	St 1			500		melts	
30	8.4	83	St 1						
15	8.0	199	St 1						2(2)
15			(St 2) yes		<1				2(5)
			yes		<1 n.ind. 2/6				
			yes		10/30 n.ind. 2/6				
60	7.2	80	St 1		10/100 n.ind.	480		melts	
15			(St 2) yes		10/100				2(2)
60	9.6	145	St 1 yes		10/30	530		melts	5
			yes		10/100				
					100/1000 n.ind.				

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Resin, synthetic, based on methyl methacrylate	1298		100	76		28 100 100	6 28 28	4 4	90 38 38	
Resin, synthetic, mixture	1723	86	72 100	63		56 100	31		60	
Resin, synthetic, mixture	1722	85	66 100	44		30 100	22		150	
Resin, synthetic, based on melamine and isocyanate	2235				99		95	82	<10	
Resin, synthetic/cellulose (3:1)	0326						96	77	12	
Resin, synthetic/soot	2236							100	<10	
Resin, synthetic/soot	0327						100	99	<10	
Resin, synthetic/soot	2237						98		15	
Resin, terpene	4022								140 140	
Resin, terpenephenolic	0324						97	85	10	
Resin, terpenephenolic	0325	88		40	36				200	
Rubber	0290				92		50	11	32	
Rubber	0291				93		45		33	
Rubber	0292				92		45		34	
Rubber	0293				93		45		34	
Rubber	2614								38	
Rubber, grinding dust	1858	97	88 100	63		58 100	22		61	
Rubber, grinding dust	0897		100	96		53 100	20		61	
Rubber	3258	97	85	70		52	37		65	0.3
Rubber, grinding dust	2221			78	43		12		80	
Rubber, grinding dust	1582	100	97	70		28 100	3		90	
Rubber, grinding dust	2222			64	34		6		91	
Rubber, grinding dust	2223	97		71	30				95	
Rubber, grinding dust	5369	98	89 100	68		25 100	5		95	1.1 1.1 1.1
Rubber, grinding dust	5363	99	91 100	56		10 100	3		115	0.9 0.9 0.9



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15	8.7	96	St 1		<10 100/1000 n.ind.		440		5
100			St 1						3
100			St 1						3
30	9.1	131	St 1			550		n.g.u.450	
125	8.0	48	St 1			640		n.g.u.450	2
30	8.9	171	St 1			520		melts	5
15	9.7	184	St 1						
15	8.6	203	St 2 yes		<2 <1 n.ind.	510		melts	5
15	8.7	143	St 1			480		melts	2(3)
15	9.0	205	St 2			420		melts	
	7.5	90	St 1						
	7.5	90	St 1						
	7.3	120	St 1						
	7.4	106	St 1 yes		1000/3000				5
									5
30	8.7	188	St 1						5
15	7.0	101	St 1						
30	7.6	162	St 1		>5		420	470	5
30	8.5	138	St 1		>10	500		230	5
									4
15			St 1						
	7.5	59	St 1			500		310	
30	9.0	120	St 1			540		270	5
									5
30	8.4	157	St 1						
									5
30			St 1						

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Rubber, ground	5335	98	76 100	45		27	9		130	0.6 0.6 0.6
Rubber	5368	95	85 100	46		10	2		130	1.1 1.1 1.1
Rubber	2220	100		45	15		4		140	
Rubber, grinding dust	1581	93	75 100	45		15	2		140	
Rubber	5366	97	82 100	39		10	2		150	1.2 1.2 1.2
Rubber	5367	95	78 100	37		9	3		150	1.1 1.1 1.1
Rubber, grinding dust	0898	100	84 100	40		15	3		150	
Rubber, grinding dust	5370	94	70 100	27		6	1		190	0.5 0.5 0.5
Rubber	2995								215	
Rubber, grinding dust	5362	95	68 100	11		1			220	1.3 1.3 1.3
Rubber, grinding dust	5371	97	65 100	12		3			230	0.3 0.3 0.3
Rubber	5364	67	45 100	17		7	2		300	1.3 1.3 1.3
Rubber, ground (<0.9 mm), from tyre recycling	5350	79	39 100	12		4	3		320	2.3 0.8 0.8
Rubber, grinding dust	5361	61	41 100	23		5	4		360	1.3 1.3 1.3
Rubber	0294	47		13					600	
Rubber, hard	0899		100							
Rubber, hard, grinding and milling dust	1290	98	97	96		87 100 100	65 76 76	49 49 49	24 21 21	

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			St 1						2
30	8.6	92	St 1			470		n.g.u.450	3
30			St 1						5
15			St 1						3
30			St 1						3
15			St 1						4
15			St 1						3
100			St 1 yes		300/3000				5
30			St 1						5
30			St 1						5
30			St 1						4
30			St 1						5
30	1.1	2	St 1			570		melts	4
30			St 1						2
100			St 1					410	3(5)
15	8.5	163	St 1		<10 <10 n.ind.		300		

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Rubber, hard, grinding dust	5015		100	78		58	32		55	
Rubber (natural latex), grinding dust	5404	92	60 100	25		1			195	0.7 0.7 0.7
Rubber (natural latex), sponge, grinding dust	0900	12	6 100	2					2100	
Rubber, India, powder	2238			58	40		20		95	
Rubber, India, powder	2239			40	18				155	
Rubber, synthetic	0328			66	46		18	9	80	
Rubber, synthetic, soot-containing	0329		100	63	26				104	
Rubber, synthetic, moist	0330		100	54	37				109	
Rubber, synthetic, soot	0331	99		49	21				127	
Rubber, synthetic	0332	46							630	
Rubber, synthetic	0333	35		7					725	
Rubber, synthetic/soot	0335	64		19					410	
Rubber, synthetic/soot	0336								530	
Rubber, nitrile (synthetic)	0334	19							1000	
Rubber, cutting of mouldings	1746	88	48	4		1			280	0.7
Rubber, cutting of mouldings with Al insert	1747	93	65 100	30		12	6		190	
Rubber, cutting of mouldings with steel insert	1748	92	65 100	17		5	3		230	
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	8.2	157	St 1						3(5)
30			St 1						5
30	9.5	192	yes St 1	11		450		230	5
60	9.0	153	St 1			460		230	
15	8.6	145	St 1			450		240	5
30	8.7	111	(St 2) St 1			460		220	5
60	7.9	68	St 1 St 1			480		250	5
30	8.8	118	St 1 St 1			470		220	5
	6.6	19	St 1 St 1			570		415	5
	n.i.		St 1			580		370	2
250	8.4	70	St 1			(440)		n.g.u.360	
500	7.7	51	St 1			(480)		n.g.u.360	
	n.i.		St 1			620		555	5
15			St 1 St 1						2
15			St 1						3
15			St 1						3

<b>Product group 1.2.1 Plastics, resins, rubber</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Shellac	0940		100	60		18 100	6		115	
Styrene acrylonitrile copolymerisate	5458	45	25 100	11		7 100	3		590	0.7 0.7 0.7
Styrene methacrylic acid	2603								29 29	
Triacetate	2284	85		15					290	
Vinyl chloride	2768								160	
Vinyl chloride/maleic acid anhydride, polymerisate	2285	62		47	35		22		150	
Wax	0496			52	25				122	
Wax, amide	0942			100		99	95		3	
Wax (bis-stearoyl/ palmitoyl ethylene diamine)	5082	93	45 100	9		3			280	0.4 0.4 0.4
Wax, carnauba	5288			100		98 100	74		22	0.5 0.5
Wax, carnauba	5287	100	99	93		79 100	51		31	0.5 0.5
Wax (NN'ethylenebisstearamide)	0941					100	95		10	
Wax, hard	1328								75 75	
Wax, paraffin/ wax, hydrocarbon (GS synthesis hard wax)	5511		100	85		31 100 100	11 39 39	16 16	80 34 34	0.1 0.1 0.1
Wax, polypropylene	0943						100			

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15	7.6	144	St 1						2 (5)
30	8.1	126	St 1 yes		<2 1/3 n.ind.				5
	5.0	14	St 1		>1000	470		n.g.u.450	
30	9.9	207	yes St 2		100/300	550		n.g.u.450	
15 15	8.3	96	St 1 (St 2)						2 (2)
15			St 1						2(3)
<30	8.4	155	St 1						2(2)
<30 <15	8.4 8.7	169 269	St 1 St 2						2(2)
			yes		10/100 100/1000 n.ind.				
<30	8.5	141	St 1		1/3 1/3 n.ind.		360		2(3)
<15	8.6	208	St 2						2 (2)

<b>Product group 1.2.2 Pharmaceuticals, cosmetics, pesticides</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Acetaminophenol	0497		100			100				
Acetyl cysteine	3216			100		96 100	84		11	<0.1 <0.1
Acetylsalicylic acid	0944		100			100				
Acetylsalicylic acid	0498		100			100				
Acetylsalicylic acid	1329	100	79 100	17		5	2		210	
Acetylsalicylic acid	1330	90	8 100	1		100 100	30 30	14 14	39 39 400	0.1 0.1 0.3
Acetylsalicylic acid	1895	50	4	1					500	0.3
Acetylsalicylic acid (95 %)	5283	99	91 100	69		64	46		40	1.9 1.9 1.9
Allantoin	0500					100				
Allantoin (5-ureidohydantoin)	0947		100					99	83	14
Allopurinol	0501		100			100				
Allopurinol/lactose/additives (66:29:5)	0948					100		100	95	9
Almond flour	0525		100			100				
Aloin amorph	0502						98	81	13	
Aminophenazone	2286						100	98	<10	
Aminotriazole	1331								22 22	
Amitriptylineoxidedihydrate	0949		100			100				
Ammivisnaga umbellae, ground	0950	97	57 100	27		14	5		200	
Ascorbic acid	0504				92	100				
Ascorbic acid	3193	98	83 100	53		24	6		120	<0.1 <0.1 <0.1
Ascorbic acid, L(+)-	0503				93	100				
						100	75	61	14	



Lower Explos. Limit	Max. Explos. Overpressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15			(St 2) St 1 St 1						2(5) 2
15	7.9	217	St 2				550	melts	2(5) 1(3)
15			(St 2)						
60	9.5	258	St 2		<10 <10 n.ind. >10000		510	melts	2(5)
60	7.8	157	St 1				480		2(5) 2(5)
60	7.9	147	St 1						3(4)
125	8.4 n.i.	167	St 1				890	melts	2(2) 5
30 30	8.8	159	(St 2) St 1						2 2
30	9.3 10.3	145 238	St 1 St 1 St 2 yes	9	<10 <10 n.ind.		520 330	melts n.g.u.450	2(2) 2(5)
200 60	9.0	111	St 1 St 1 (St 2) St 1				460	melts	2 2
60	6.6	48	(St 2) St 1 (St 2)				490	melts	2(2)

<b>Product group 1.2.2 Pharmaceuticals, cosmetics, pesticides</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Bath powder with salicylic acid and salicylated humic acids	1334		100	97		89 100	76		10	
Bath powder with salicylic acid and salicylated humic acids	1335		99	81		59 100	35		51	
Birch leaves, dried and ground	0954		100	95		62 100	42		42	
Butcher's broom extract (Ruscus extract)/dextrin/silicondioxide (54:43:3), spray dried and ground	0975			100		99 100	91		7	
<b>Caffeine</b>	0958		100			100				
Calcium L(+) ascorbate	0505		100		9	100			150	
Camomile powder, dried blossoms	0972		100			100				
Carbamazepine	2791								15 15	
Chloramphenicol palmitate	0508		100			100				
Chlorophenoxamine hydrochloride	0509		100			100				
Cinchonabark	2287	87	100	37	27	100	18		180	
Citric acid/D-mannite/wheat bran/Karion/plum purée	1345	95	57 100	27		16 100	10	5	220	0.9
Clanobutine, 4-[4-Chlor-N(4-methoxyphenyl) benzamido] butyric acid	1548	99	96	84		48 100	31		65	
Clemizol penicillin G	0510		100			100				
Clemizol penicillin/streptomycin sulphate/streptomycin pantothenate	0511		100			100				
Clemizolhexachlorophenate	0956		100			100				
Codein resinate	0957		100			100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15			St 1		<10		n.i.u.600		5(5)
30			St 1		10/100 n.ind.				5(5)
100			St 1						4
30	8.4	166	St 1						2(2)
30	8.2	165	St 1				n.i.u.550	melts	2(5)
125	5.2	18	St 1			520		n.g.u.440	2
			St 1						4
100			St 1 yes		2/5 4/8 n.ind.				2(2)
30			(St 2)						2(2)
15	9.3	171	(St 2)			520		290	3
125			St 1		100/1000 n.ind.		410		3(3)
			yes						2(5)
100			(St 2)						3(3)
			(St 2)						2
30			(St 2)						1(1)
30			(St 2)						2
15			St 1						2
15			St 1						

<b>Product group 1.2.2 Pharmaceuticals, cosmetics, pesticides</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Coffee coal	0971	70	38 100	21		17			370	
Contraceptive	2873					100			<10 <10	
Contraceptive	2900								12	11
Contraceptive	2899								15	11
Contraceptive	2901								16	11
Contraceptive	2878								70 70	
Convallaria majalis (Lily of the valley), ground leaves and shoots	1636	98	72 100	24		10	7		210	
Convallaria majalis (Lily of the valley), ground	0974	93	54 100	19		6	2		245	
Curcuma roots, ground	0959	61	51 100	37		22	4		250	
Cyproterone acetate	2812					100			<10 <10	
Cyproterone acetate corn starch	2896								<10	8.6
Cyproterone acetate corn starch	2895								<10	9.3
Cyproterone acetate Lactose	2832								23 23	
Cysteine hydrate	2288				100		98	94	<10	
Cysteine hydrate	2289	52	100	1					500	
<b>d</b> -norpseudoephedrine- HCl/aluminium oxide (12:1)	0528		100			100				
<b>d</b> -ephedrine hydrochloride	0517				99	100	88	76	10	
<b>D</b> andelion powder, dried roots	0973		100			100				
Devil's claw, storage root	0988	76	61 100	34		20	12		200	
Dextromethorphan resinate	0960		100			100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			St 1 yes  yes yes yes yes		<1 <1 n.ind. 30/300 30/300 100/300 <1 <1 n.ind.				4
100			St 1						4
15			St 1						4
30			St 1 yes  yes  yes		1/3 2/5 n.ind. 10/30  30/300				4
125	7.4 n.i.	40	St 1		2/5 2/5 n.ind. >1000	420 n.i.u.850		melts melts	1(2)
30			(St 2)						3(3)
30	8.7	129	St 1 (St 2)			390		melts	2(5)
15			St 1						4
100			St 1						4
30			St 1						2

<b>Product group 1.2.2 Pharmaceuticals, cosmetics, pesticides</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Diclofenac sodium	1336	96	91 100	64		42	25		82	
Digitalis leaves (foxglove)	0512				59	100	62	31	28	
Digitalis leaves (foxglove)	0513	32					42		46	
Dimethylaminophenazone	0514						100		750	
Disulphonamide	0515		100						<10	
Doxylaminesuccinate	0516		100			100				
Enzyme preparation (carrier: potato starch)	3404			100		98	54		29	9.8
Escin, extracted from horse- chestnuts, spray dried	0945			100		96	57		30	
Escin acid, extracted from horse- chestnuts, spray dried	0946	100	96	91		80	55		28	
Estradiole hemihydrate	2968								<10	
Estradiole valerianate	2874								<10	
Ethinyl estradiole	2872								<10	
2-ethoxybenzamide	0951		100			100			<10	
Fluocortolon capronate	0963		100							
Frankish drug	0518	67		38	30	100			280	
Fungicide, 1-(n-butylcarbamoyl)- 2-(methoxycarbonyl-amino)- benzimidazole	0964		100			100				
Fungicide (26 % Mancozeb, 33 % captan, inert subst.)	0965			100		99	93		5	
Fungicide, Maneb/fentinacetate (34:1)	2292				98		97	93	<10	
Fungicide, mordant (50 % Tolclofos methyl)	1337					100	98	94	<10	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15 250	8.5 n.i. 10.0	73  337	St 1 St 1  St 3  St 1  (St 2)		>10000		n.i.u.600		2   2(2) 2(5)
30  15  30			St 1  (St 2)  (St 2) yes yes yes		1/3 1/3 n.ind. 1/2 <1 n.ind. 1/2 1/2 n.ind.				3(5)  5
<15	8.6	214	St 2				490	melts	2(5)
15 500	8.2	126	(St 2) St 1  St 1  (St 2)			510		300	1(2)  4 5(5)
30  200			(St 2)  St 1  yes		>1000	380		200	5
250	7.2	102	St 1		1000/10000		410		2

<b>Product group 1.2.2 Pharmaceuticals, cosmetics, pesticides</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Fungicide, mordant (10 % Tolclofos methyl)	1338					100	98	77	14	
Fungicide, zinc-(N,N'-propylene- 1.2-bis(dithiocarbamate))	0519 2291 0520				100		100 99 35		<10 <10 37	
<b>G</b> arlic pearls	1339	100	99	93		66 100 100	44		38	
Garlic premix	1340	95	91 100	85		59	32		50	2.2 2.2 2.2
Ginkgo aroma blend	5554			100		97 100	86		11	3.0 3.0
Ginkgo aroma blend	5570			100		98	85		12	3.4
Ginkgo aroma blend	5553	99	96	80		36 100	12		73	2.9 2.9
Ginkgo extract (24 %)	5490		100	98		87 100 100	63 75		24 22	1.4 1.4
Ginkgo extract (24 %)	5489		100	98		87 100 100	55 74 74	45 45	22 29 22	1.4 1.2 1.2
Glibenclamide	0966					100				
Golden rod, ground shoots, leaves and flowers	1637	97	74 100	27		15 100	6		170	
<b>H</b> awthorn blossom, dried, ground	0997		100	93		65 100	44		40	
Hawthorn fruits, dried, ground	0998		100	94		68 100	35		46	
Hawthorn leaves, dried, ground	0996		100	87		60 100	38		49	
Hawthorn extract	5519	59	27 100	21 100		18 98 100	12 93 89		450 10 9	1.3 1.3 1.3
Hawthorn extract/dextrin/ silicondioxide (35:60:5), spray dried, ground	0989							75		
Herbal stomach tablets (85 % herbs, 15 % lactose), from herb mill	1794		100	93		68 100	38		44	
Herbicide	4359								10	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
200			St 1		>10000		440		2
60	8.6 9.0 7.8	205 154 130	St 2 St 1 St 1			480		300	
30			St 1 yes		10/100 100/1000 n.ind. 100/10000 n.ind.		470 450		4 4 3
125	8.5	107	St 1 yes		30/100		400		3
100			St 1						3
60	9.2	206	St 2		1/3 3/10 n.ind.		420		2
60	9.2	215	St 2		<10 <10 n.ind.		420		2
30			(St 2)				360		2(5)
30			St 1						4
200			St 1						4
100			St 1						4
200			St 1						4
125	8.9	170	St 1		100/300		440		3
<60	8.2	135	St 1						2
30			St 1						3
			yes	12					

<b>Product group 1.2.2 Pharmaceuticals, cosmetics, pesticides</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Herbicide	2293						99	88	13	
Herbicide	2294						99	80	17	
Herbicide	2295				73		48	18	33	
Herbicide	2296				57		38		58	
Herbicide	0521				55		19		65	
Hexamethylenetetramine mandelate	0967		100			100				
Horse-chestnut extract	0984			100		90 100	59		27	
Horse-chestnut extract 16.7 %, spray dried	0985		100	87		57 100	47		44	
Horsetail herb, ground, rootstock, shoots and leaves	1640	99	95	87		53 100	40		45	
Ibuprofen	5019					100	97		<10	
Iron fumarate	0962		100			100				
Isosorbide dinitrate 20 %/ lactose/stearic acid/ Diltiazem HCl/organic additives (40:22:20:12:6)	0968		100			100				
Isosorbide dinitrate 25 %/ lactose/stearic acid/ orga- nic additives (64:10:20:6)	0969		100			100				
Isosorbide dinitrate/lactose (50:50)	0522			93	64		30	19	54	
Isosorbitol-5-mononitrate/ lactose (80:20)	0970	100	98	87		57 100	26		54	
Juniper berry oil, spray dried	0995		100	90		28 100	6		89	
L-arginine	5579	99	75 100	36			11	1	160	0.3 0.3 0.3
L-cystine	2290				100		95	69	15	
Lactose-1-hydrate	5577		100	56		8 100	3		115	0.2 0.2
Lactose/wheat bran/ dry glucose/plum purée (tablet granulate)	1344	96	60 100	15		5 100	3	2	240	2.5
Laxative granulate (saccharine sodium/sodium cyclamate/gelatine/ polysorbate/plantago OV)	1343	99	92	56		14	5	1	120	3.7

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility	
						G-G	BAM			
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ	
30	8.4	84	St 1			740		n.g.u.450	5(5)	
	9.0	160	St 1			520		n.g.u.450		
	8.2	88	St 1			530		n.g.u.450		
	8.4	73	St 1			350		420		
	8.9	205	St 2							
15			(St 2)						2	
100			St 1						2	
200			St 1						4	
100			St 1							
15			(St 2)						3(5)	
200			St 1						4	
30			(St 2)						2(2)	
30			(St 2)						2(2)	
30	12.1	220	St 2			220		240	3	
30			(St 2)						5(5)	
<30	8.2	126	St 1				340	330	5	
30	8.5	142	St 1		>30	400		melts	2	
60			St 1						3	
30			St 1							
500			St 1	>1000 n.ind.					410	2
100			St 1							
200			St 1	>1000 n.ind.		410		4		

<b>Product group 1.2.2 Pharmaceuticals, cosmetics, pesticides</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Laxative lozenge	1341	100	98	88		65	46		37	
Laxative lozenge, granulate, premix	1584		100	90		63	48		40	
Laxative lozenge (herbal)	1342	99	95	46		13	7		135	
Lily of the valley (Convallaria majalis), leaves and shoots, ground	1636	98	72	24		10	7		210	
Lily of the valley (Convallaria majalis), ground	0974	93	54	19		6	2		245	
Lonazolac-calcium (3-(4-chlorophenyl)-1-phenyl- 1H-pyrazole-4-acetic acid calcium salt)	1567	21	7	3		1			1100	
<b>Magnesium clofibrate</b>	0524		100			100				
Magnesium-diasporal (30 % anhydrous magne- sium citrate, 44 % magne- sium citrate x 14 hydrate, 11 % saccharose)	1999	100	98	92		25	9		80	
Magnesium-diasporal (37 % anhydrous magnesium citrate, 50 % saccharose)	1998		100	96		65	45		40	
	2000	100	98	89		33	11		73	
	5083	100	64	46		33	24		140	0.1
			100			100	83	68	13	0.1
Magnesiumaluminium silicate- hydrate/fat free milk powd.	0523		100			100				
Mandelic acid, raw	0526		100			100				
Mannite/bacterial lysate (92:8)	1749			100		99	83	50	20	
Maria thistle seed extract	1476	100	98	90		73	49		31	
Medicaments	1332					100	87	68	14	
Medicaments, filter dust	1940	99	94	88		80	54		25	
			100			100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			St 1		>10000		470		4
15			St 1						4
			St 1		1000/10000		460		2
100			St 1						4
15			St 1						4
100			St 1						2(2)
30			(St 2)						5
30			St 1						2
30			St 1						2
30			St 1						2
30			St 1		>10000		440		2
100			St 1						2
15			(St 2)						2(5)
15	8.8	154	St 1						3(3)
<15	7.7	185	St 1						2(2)
60	9.1	123	St 1		10/100		380		3
60	9.0	195	St 1						3

<b>Product group 1.2.2 Pharmaceuticals, cosmetics, pesticides</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Medicaments, filter dust	1333	99	97	74		38 100 100	19 43 43	18 18	76 34 34	
Melissa powder, dried leaves	0976		100			100				
Mesterolone	2877								<10 <10	
Methenaminehippurate	0977	92	85 100	63		46 100	19		75	
Methionine	2297				100		99	95	<10	
Methionine	2298				100		98	87	<10	
Methocarbamol granules, ortotone lactose-1-hydrate	5572	33	13 100	10		7 100	4		1400	0.8 0.8 0.8
Mistletoe, dried and ground	0978		100	91		71 100	28		49	
Mistletoe (Viscum album), shoots and leaves	1642	20	8 100	4		4 100	2		900	
N-cetyl-N,N,N-trimethyl- ammonium bromide	0506		100		90	100	25	8	44	
N-cetylpyridinium chloride monohydrate	0507		100		58	100	22	11	62	
Nifedipine	1346		100	98		100 84 100 100	60 69 69	40 40	27 24 24	
Norethisterone	2876								<10 <10	
Norethisterone acetate	2875								<10 <10	
Norpseudoephedrine resinate	0979		100			100				
Nutmeg flowers, ground	5011	93	71 100	22 100		3			190	
Oak bark, ground	0961	52	30 100	15		8 100	4		490	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			(St 2)		<10 <10 n.ind.		410		3
15			St 1 yes		1/3 <2 n.ind.				4
15			(St 2)						5(5)
30	9.4	143	St 1	12	>9	390		melts	5
30	8.7	128	St 1	12	>30	390		melts	5
30			(St 2)						2(5)
200			St 1						4
100			St 1						4
30	8.5	117	St 1			290		320	5
15			(St 2)						
15	8.2	138	St 1			290		315	5
			(St 2)						2(5)
30	10.0	283	St 2 yes yes		<10 <10 n.ind. 1/3 <1 n.ind. 1/2 1/3 n.ind.		350		
30			St 1						2
30			St 1						3
30			St 1						4

<b>Product group 1.2.2 Pharmaceuticals, cosmetics, pesticides</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Pakistani drug	0529	59		32	23				300	
Papaverinium chloride	0530		100			100				
Paracetamol	0980		100		30		14		120	
Paracetamol (87 %), gran.	1607		100	68		22	10		105	
Parsley root (powder)	1985	100	98	85		64	51		30	
Pentosan (70 % pentoses, 30 % hexoses)	5520	100	96	90		80	71		12	2.7
Pentoxifyllin	1347	100	98	95		87	75		17	1.9
Peppermint leaves	1857	100	93	50		100			14	1.9
Pesticide (80 % diphenamide)	0981		100			100			14	
Pesticide (phosphorus chlorine)	0539		100			100			62	
Pesticide	2300				99		98	95	<10	
Pesticide	1352			100		98	94		<10	5.2
Pesticide	5010		100	54		3	1		120	
Pharmaceutical raw material (20 % sorbitol)	1348			100					15	
Phenylbutazone	0982		100			100				
Phenylbutazone	0531		100			100				
Phenylthiadiazolyl urea	0532								<10	
Phenytain	1349	100	98	87		28	9		80	
Plant protection wetting agent	2301			100		96	41	29	36	
Plantago ovata seeds (Indian flea seeds)	1950	100	88	66		96	41	29	36	
Plantago ovata seeds (Indian flea seeds)	1638	100	75	60		36	21		120	
			100			100				



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	1.9	3	St 1			520		300	4
100			St 1						
30	9.0	218	St 2			470		melts	2(5)
<15	7.9	156	St 1				n.i.u.550	melts	3(3)
30			St 1						
250	8.1	52	St 1						4
			St 1						
200			St 1						5
60	9.4	197	St 1		<10 <10 n.ind.		540		2(3)
									4
200			St 1						5
15			(St 2)						2(2)
			St 1						
60	8.6	151	St 1			410		320	3
60	9.4	164	St 1		10/100		370		2
30			St 1		>10000				
									5(5)
15			(St 2)						2(5)
30			(St 2)						
30	9.0	119	St 1			680		melts	5
60	8.8	205	St 2		<10 <10 n.ind. >5		550		2(5)
								n.g.u.450	
60	8.8	95	St 1			380			3
30	8.0	132	St 1						3

<b>Product group 1.2.2 Pharmaceuticals, cosmetics, pesticides</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Plantago ovata seeds (Indian flea seeds)	1973	72	47 100	35		20	10		260	
Plantago ovata seeds (Indian flea seeds)	1972	70	35 100	26		12	7		330	
Plantago seed husks	1639	100	74 100	19		5	3		220	
Polyol instant (92.2 % sorbite, 4.9 % xylite, 2.9 % mannitol)	5355	100	90 100	25		2			170	0.7 0.7 0.7
Powder, cosmetic (60 % talcum, 10 % zinc stearate, 15 % kaolin)	0533		100			100				
Powder, cosmetic (65 % talcum, 10 % zinc stearate, 15 % kaolin)	0534		100			100				
Powder, medical (hexachlo- rophenone, colloidal sulphur)	0535		100			100				
3-pyridyl methanol (RR) hydrogen tartrate	1350	100	97	63		23 100 100	8 53 53	15 15	100 30 30	
Pyrithione zinc	5440	95	84 100	72		62	54		23	0.1 0.1 0.1 0.1
						100 100	90 90	77 77	<10 <10	
<b>Rat poison</b>	1865	20	17 100	13		11	10		2800	
Rauwolfia	0536	56		44	37		26		200	
Rauwolfia	0537	57		26	20				400	
			100			100				
Rosemary extract	1351	92	73 100	69		58	52		30	
						100 100	91 91	78 78	<10 <10	
Rosemary leaves, dried and ground	0983		100	81		50 100	31		63	
Rosemary residue	5093	76	25 100	2		2	1		380	1.8 1.8
Rutin	0538			100		96	80	53	17 <10	1.8 7.0

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
750	7.7	60	St 1						3
1000	7.5	48	St 1 St 1 St 1						3 3 3
30			St 1						2(5)
30			St 1						3
200			St 1						3
200			St 1						2
200			St 1 (St 2)		<10 10/100 n.ind.		380		3(5)
60	9.6	249	St 2		<5 <5 n.ind.		430		5
100	6.4 n.i.	40	St 1 St 1				520	310	3 4
100			St 1						5(5)
30	9.2	249	St 2		<10 <10 n.ind.		380		4
100			St 1						4
60	9.2	140	St 1		100/1000		450		4
60	8.2	111	St 1			530		melts	2(2)

<b>Product group 1.2.2 Pharmaceuticals, cosmetics, pesticides</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Salicylamide	0990	100	76 100	10		1			230	
Senna extract	0992		100	67		100 25	10		87	
Senna extract, spray dried, with preservative	1629		100	69		100 32	9		89	
Senna fruit (Fructus Sennae), ground	0987		100	97		100 73	47		36	
Senna fruit (Fructus Sennae), ground	1641	100	95	64		100 40	28		85	
Senna leaves (Folia Sennae), ground	0986		100	91		100 61	38		48	
Silibinine	1931					100	96	79	11	
Silibinine	1929					100	94	78	12	
Silibinine	1930		100	94		100 70	31		47	
Silymarine	1928					100	98	94	<10	
Silymarine, finished product	5279		100	97		100 83	53		30	0.4
Silymarine, intermediate product, residual ethanol	5280		100	97		100 85	56		29	5.5
Silymarine, intermediate product, without ethanol	5281		100	97		100 85	56		29	1.8
Silymarine, silybin/silychristin/silydi- anin (approx. 3:1:1)	0993						100			
Slug killer (90 % organic constituents, 6 % inorganic constituents, 4 % metaldehyde)	0540		100			100				
Soap base	2616									
Sodium cetyl stearyl sulphate	2646								160 160	
Sodium L(+) ascorbate	0527				97		67	45	23	
Sodium iodopodate	2299				98	100				
Sodium pentosan polysulfate	5521	100	98	80		48 100	26	83	<10 65	0.9 0.9

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			(St 2)						2(2)
200			St 1						2
			St 1						3
200			St 1						4
			St 1						4
200			St 1						4
100			St 1						4
60	8.8	154	St 1						4
60	9.4	194	St 1						2
30	9.7	252	St 2						5
30			(St 2)						2
30			(St 2)						3
30			(St 2)						5
30			(St 2)						3
30			(St 2)						2
			St 1						2
			yes		100/300				
			yes		30/100 n.ind.				
					9/30				
60	8.4	119	St 1		30/300 n.ind.	380		380	2
	6.2	21	St 1			730		n.g.u.450	
200			St 1						2

<b>Product group 1.2.2 Pharmaceuticals, cosmetics, pesticides</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Sorbitol	0541				97		77	48	21	
Sorbitol	2302				74	100	10	3	51	
Sorbitol	3254		100	93		56	32		52	0.2
Sorbitol	2303			50	22				125	
Sorbitol (97 % sorbitol, 0.7 % mannitol)	5354	100	89 100	50		20	9		125	1.1 1.1 1.1
Sorbitol (97 % sorbitol, 0.8 % mannitol)	5353	100	84 100	37		2			150	0.5 0.5 0.5
Sorbitol	5040		100	86	32		11	4	160	
Sorbitol	2304	90		12	6				320	
Sorbitol/magnesium alumi- nium hydroxide (30:70)	2305	60		48	41		40	38	200	
Sorbitol			100							
Sorbose	2306				81		46	29	35	
Sorbose	0542	82	100	19					195	
Sorbitol						100				
Sorbitol	2307	78		6					350	5
Spironolactone	0994		100							
St John's wort (powder)	1911	100	97	86		100 67	49		34	
St John's wort (drug dust)	5273	100	92 100	65		100 43	21		85	1.9 1.9 1.9
St John's wort extract	5442	100	98	82		52	27		60	1.3
St John's wort extract	5441	99	94	77		47	25		65	0.8
Stinging nettle (powder), from dried leaves	0955		100							
Stinging nettle (drug dust)	5272	100	98	90		100 68	47		35	0.8 0.8
Stinging nettle root, dust deposits	1855	92	81 100	65		36	20		98	
Stinging nettle root, cut	1856	35	22 100	9		6	3		800	
Sweetener tablef mixture (40 % saccharine)	5237	99	95 100	80		43	35		78	1.7 1.7 1.7
						100	62	22	29	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	8.1	111	St 1 (St 2)			450		melts	2(2)
30	8.9	113	St 1		>100	420		melts	
125	7.2	74	St 1			420		melts	
	6.5	30	St 1						
30			St 1						2(3)
100			St 1						2(3)
30			St 1						2(3)
	n.i. n.i.					420 n.i.u.850		melts n.g.u.450	1
60	9.4	117	St 1			430		melts	
60	6.8	27	St 1			490		melts	2(2)
			(St 2)						
	5.4	25	St 1			530		melts	1(2)
30			(St 2)						4
30			St 1						2
30			St 1						3
60	8.7	166	St 1		10/100		430		3
60	8.1	100	St 1		10/100		430		3
									4
15			St 1						2
100			St 1						3
30			St 1						4
200			St 1						2
500	6.3	98	St 1		>10000		n.i.u.600		

<b>Product group 1.2.2 Pharmaceuticals, cosmetics, pesticides</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Tablet filming (film former/softener/ pigments/dyes/auxiliaries)	1353	99	99	97		94	85		<10	
						100	84	71	<10	
						100	84	71	<10	
							100	98	<10	
Tetramethylthiuramdisulphide	2308								12	
Trimipramine hydrochloride	1354								12	
Tris(hydroxy methyl)-amino- methane	5578	82	33	13		6	2		310	0.2
						100				0.2
						100				0.2
Valerian powder	1910	99	96	83		65	46		37	
Valerian root powder (100 % natural)	1984	95	81	62		44	32		78	
						100				
Valerian roots, ground	0952	55	35	26		18	9		450	
						100				
Valerian roots, ground	0953	46	32	27		23	19		600	
						100				
Vitamin granulate	0543		100			100				
Vitamin premix	3141	94	76	50		29	18		125	3.4
						100				
Wormwood powder, dried leaves	0999		100			100				
Yarrow, ground	0991	93	63	33		19	13		160	
						100				
Zentramin granules (Kollidon 25/maizestarch/ sugar/amino aceticacid/ magnesium citrate 15/ calcium citrate/potassium citrate)	5571	88	31	2		1	1		360	2.6
						100				2.1



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>S</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	9.1	146	St 1		<10		430		5
30	9.4	174	St 1 yes		<10 n.ind.	270		melts	
30			St 1		<10 <10 n.ind.				3(5)
100 125	8.7	106	St 1 St 1						4 4
100			St 1						2
30			St 1						4
30			(St 2) St 1						2 2
			(St 2)						2
100			St 1						4
30			St 1						4
200			St 1						3

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Acenaphthylene	1000	72	46 100	25		16 100	2		300	
Acetoacetic acid anilide	0544				62		37		52	
Acetoguanamine	2309				85		69	25	24	
Acetoguanamine (2,4-diamino-6-methyl- 1,3,5- triazine)	5103	100	91 100			39 100	13		77	0.3 0.3 0.3
Acidose (Sodium-calcium citrate with glycerine)	1670		100	97		79 100	3		44	
Acrylamide	0545		100			100				
Acrylate	4403		100			100				
Acrylic acid, cross-linked/ acrylate	1001	100	35 100	13		3 100			270	
Additive for brake linings (50 % graphite, 48 % oxides, 2 % sulphur/salts)	1783		100	99		98	94		<10	1.0
Adipic acid	0546				98		92	86	<10	
Adipic acid	1539	98	76 100	27		13 100	6		210	
Alginate (enzyme), immobilised cells	1677		100	57		26 100	10		110	
Alginate (enzyme), immobilised cells	1676	47	2						530	
Alginate acid	4462		100			98 100		29	25	
Alginic acid (from sodium salt)	4452					99		29	28	3.3
Alkylbenzenesulfonate, sodium salt, 80 %	4209		100			100				
Aluminium hydroxide hexitol codried gel	1005					100	56		31	
Aluminium hydroxide polyethylene glycol codried gel	1007			99		64 100	27		50	
Aluminium hydroxide sugar codried gel	1008			100		92 100	42		35	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30 125	6.2 8.9	39 77	yes St 1 St 1			n.i.u.850		n.g.u.450	2(5)
200			St 1						2
30			St 1						2
30			(St 2)						2
45			yes				450	melts	
30	n.i.		St 1						2
60	8.0	97	St 1			580		melts	2(5)
30			St 1						2(5)
30			St 1 St 1				440	470	2
95 110			yes yes				340	290 450 360	
	6.4 n.i.	77	St 1 no		5000/10 <sup>5</sup>		450	310	2
			St 1				380	270	2
125	2.2	22	St 1 St 1						2

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Aluminium hydroxide calcium carbonate glycin codried gel	1601					100	98	87	<10	
Aluminium hydroxide/2-phenylinide azoline (75:25)	1854	100	96	93		88	80		<10	1.6
Aluminium magnesium hydroxide carbonate sorbitol mannitol codried gel	1009					100	52		32	
Aluminium magnesium hydroxide sulphate, granul. (with mannitol/sorbitol)	1011	70	41 100	27		22	20		360	
Aluminium magnesium hydroxide sulphate, granulated (with a hexitol)	1010	62	59 100	54		50	46		67	
Aluminium magnesium hydroxide xylitol codried gel	1006		100	99		100 95	45		30	
Aluminium octoate	1012		100							
Aluminium zirconium tetrachlorohydrate glycine complex (15 % Al, 14 % Zr, 18 % Cl, 12 % glycine)	1013	100	98	91		100 78	36		38	
Amide wax/zinc stearate	2894								28 28	
Amine adduct, with epoxy resin	1355								15 15	
Amino acid mixture, ground	1015		100	83		57 100	36		53	
3-amino-2-chloropyridine	1014		100	45		9 100	16		130	
Aminoguanidine sulphate	0547		100	50	20				129	
2-amino-4-methoxy-6-methyls-triazine	5163	98	93 100	81		68	51		30	0.3
11-aminoundecanoic acid	4419	100				100 33	79	74 5	<10 100	0.3
Ammonium salt, polyacrylate with ethoxylate	5212					100 100	99	97	<10	10
Amylase concentrate, enzyme	1016			100		90 100	54		26	
Anhydrite/anhydrous dextrose	3334	98	76	42		16	6		150	0.0

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	n.i.		no						1
15			St 1						2
100			St 1						2
	1.1	20	St 1						1
250	1.3 n.i.	43	St 1						1 1
15	n.i.		(St 2)						5 1
			yes		<1				
			yes		<1 n.ind.				
					<10				
30			(St 2)		<10 n.ind.				5
15			St 1						2(5)
	n.i.					n.i.u.950		melts	1(1)
60	9.2	157	St 1		10/100		n.i.u.600		2
30	6.5	231	St 2			360	350	melts	
30			St 1						2
100			St 1						2
	7.4	77	St 1		>10		400		2

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Anthracene	2789								100	9.5
Anthracene	2790								102	3.0
Anthracene	2310	89		20	7				235	
Anthracene (5 % solvent)	1357	99	95	54		25	11		115	12
Anthracene (without solvent)	1356	99	95	54		25	11		115	
			100							
						100				0.4
Anthranilic acid	0552						62	37	50	
Anthraquinone	0548						100		<10	
Anthraquinone	0549						100	96	<10	
Anthraquinone	0550				100		90	75	12	
Anthraquinone	2311				76		26	11	49	
Anthraquinone, part. nitrated	0551				100		97	93	<10	
Anti-ager	1002			100		89	63		24	
(1,1-bis-(3- <i>tert.</i> -butyl-4-hydroxy-6-methyl-phenyl)-butane)						100				
Anti-ager	1003					100	51		32	
(3-(3,5-di- <i>tert.</i> -butyl-4-hydroxyphenyl)propionic-acid-octadecyl-ester)										
Anti-ager	1004		100	92		63	42		42	
(4,4'-thio-bis-(6- <i>tert.</i> -butyl-3-methyl-phenol))						100				
Anti-settling agent	2312			98	81		40	18	39	
Anti-settling agent (41 % SiO <sub>2</sub> , 13 % Al <sub>2</sub> O <sub>3</sub> , 27 % C)	1017			100		89	46		35	
						100				
Anti-settling agent (44 % SiO <sub>2</sub> , 14 % Al <sub>2</sub> O <sub>3</sub> , 23 % C)	1018		100	98		85	48		35	
						100				
Antimony pentasulphide	1019		100	97		88	71		17	
						100				
Antioxidant ( <i>o</i> -tolyl biguanide)N- <i>o</i> -tolyl- N'-guanyl guanidine)	1957	98	92	87		79	70		10	
						100				
Antioxidant (1,1,3-tris(1-hydroxy-3-methyl- 6- <i>tert.</i> -butyl phenol) butane)	1363					100	95	71	15	
						100	95	71	15	
Antioxidant (1,2-dihydro-2,2,4-trimethyl- chinoline, polymer)	1367					100	95	69	16	
						100	95	69	16	
Antioxidant (1-(2-hydroxy-3-sulfopropyl)- pyridinium-betaine)	1372	99	88	37		17	8		140	0.3
			100							0.3
						100	41	22	35	0.3

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			yes yes		7/13 4/8				
15 <15	8.7 8.4	231 188	St 2 St 1		<10	600	510	n.g.u.450 melts	5(5)
<15	9.1 8.0 10.6	285 110 364	St 2 St 1 St 3		<10	(520)	530	melts	5(5)
30 30 30 30	8.4 9.1 8.8 9.5	105 91 263 151	St 1 St 1 St 2 St 1			650 570		n.g.u.450 melts	2(5) 2(5)
<15	8.4	269	St 2						
<15	7.5	115	St 1						2(2)
<15	8.2	256	St 2						2(3)
60	7.9	109	St 1			430		n.g.u.450	2 2
60	6.8	119	St 1						2
30	6.8	146	St 1						2
			St 1						2
60	9.4	201	St 2						2(2)
30	9.2	310	St 3		<10 <10 n.ind.		370		2(3)
30	9.5	271	St 2		<10 <10 n.ind.		440		2(2)
30			St 1	10	100/1000		430		2

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Antioxidant (2,2'-(2-methylpropylidene)- bis-(4,6-di-methylphenol))	1358					100	99	92	<10	
Antioxidant (2,2'-methylene-bis-(4-methyl- 6- <i>tert</i> -butyl-phenol))	1368					100	79	40	23	
Antioxidant (2,2'-methylene-bis-6-(1,1-di- methylethyl)-4-methylphenol)	1366					100	91	68	15	
Antioxidant (2,5-di- <i>tert</i> -amylhydro- chinone)	1362					100	89	69	13	
Antioxidant (3-(3',5'-di- <i>tert</i> -butyl-4'- hydroxyphenyl) propionic acid octadecyl-ester)	1369					100	70	22	28	
Antioxidant (3-(3,5-di- <i>tert</i> -butyl-4-hy- droxyphenyl)-propionic- acid-methylester)	1959	98	89	72		35	17		90	
	1374	91	85 100	76		41	10		79	0.3
						100	25	7	40	0.3
						100	25	7	40	0.3
Antioxidant (4,4'-thio-bis[2-(1,1-dime- thylethyl)-5-methyl]-phenol)	1370					100	53	30	30	
Antioxidant (based on (3,5-di- <i>tert</i> -butyl- 4-hydroxyphenyl)-propionic- acid-ester)	4240					100			32	
Antioxidant (based on 2,6 di- <i>tert</i> -butyl- 4-methylphenol)	1373	100	79 100	36		17	5		150	1.0
						100	33	20	40	1.0
	1376	48	23	10		6	2		540	1.0
Antioxidant (benzene propanamide, N,N'-1,6-hexanediy-bis- [3,5-bis(1,1-dimethylethyl)- 4-hydroxy])	5225						100	94	<10	0.5
Antioxidant (butylated reaction product of p-cresol and dicyclo- pentadiene)	1364					100	94	70	15	
						100	94	70	15	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	9.1	266	St 2		<10 <10 n.ind.		360		2(5)
30	9.4	266	St 2		<10 <10 n.ind.		360		2(5)
30	9.3	257	St 2		<10 <10 n.ind.		350		2(5)
30	9.5	363	St 3		<10 <10 n.ind.		420		2(5)
60	8.4	142	St 1		<10 <10 n.ind.		350		2(2)
30	9.6	293	St 2						2(5)
30	9.3	274	St 2		<10 <10 n.ind.		370	melts	2(5)
30	9.1	289	St 2		<10 <10 n.ind.		370		2(5)
	8.3	199	St 1		15/30				
15	8.0	185	St 1	12	<10				2(5)
			yes		<10 <10 n.ind.		390		
15	8.3	185	St 1		<10		390		2(5)
30	9.5	280	St 2	8/10					2(3)
30	9.4	278	St 2		<10 <10 n.ind.		380		2(3)

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Antioxidant (butylation product of the conversion from p-cresol with dicyclopentadiene)	1365					100	94	69	15	
Antioxidant (dicyclopentylene 2,2'-bis- (4-methyl-6-tert-butylphenol))	1361					100	93	78	13	
Antioxidant (o-tolyl-biguanide N-o-tolyl- N'-guanyl-guanidine)	1360					100	96	74	12	1.9
Antioxidant (octadecyl-3-(3,5-di-tert- butyl-4-hydroxyphenyl)- propionate)	1371		100	80		41	19		71	0.1
Antioxidant (phenol,2,2'-methylene-bis- [4-methyl-6-(1-methyl- cyclohexyl)])	5224	98	94	91		84	82		<10	0.5
Antioxidant (sterically hindered multicore phenol)	1359					100	91	77	<10	0.5
Antioxidant (tetrakis[methylene(3,5-di- tert-butyl-4-hydroxy-hydro- cinnamate)]methane)	1375	68	16	3		1			420	0.4
Antioxidant (octadecyl-3-(3,5-di-tert-butyl- 4-hydroxyphenyl)propionate)	1958	100	98	81		45	26		65	0.4
Aroma, coconut vanilla milk	1780	78	40	18		9	6		310	2.5
Aroma, seasoning	1779	98	92	73		100	63	47	37	23
Aroma, seasoning	1782	99	95	76		50	39		63	12
Aroma, seasoning	1781	88	73	55		100	33	25	120	15
Ascorbyl palmitate	0553		100			100				
Auramine base	1024		100			100				
Azacycloheptane- 2,2-diphosphonic acid	4220					100			<10	
Azodicarbonamide	0555						100		<10	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	9.3	291	St 2		<10 <10 n.ind.		380		2(3)
30	9.3	298	St 2		<10 <10 n.ind.		370		3(3)
60	9.1	170	St 1		<10 10/100 n.ind.		n.i.u.600	melts	2(2)
60	8.6	182	St 1		<10 <10 n.ind.		350	melts	2(2)
30	9.3	266	St 2	8/10					2(3)
30	9.3	341	St 3		<10 <10 n.ind.		360		
30			St 1		100/1000		430	melts	2(2)
60	8.8	191	St 1						2(2)
			(St 2)						3
30			(St 2)						5
30			St 1						5
100			St 1						3
			(St 2)						3
100			St 1						3
100			(St 2)						3
30			(St 2)						2(5)
15			(St 2)						2(3)
	6.9	66	St 1		10 <sup>5</sup> /10 <sup>6</sup>				
	12.3	176	St 1						

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
1,4-benzenedicarbonitrile	4427		99			97 100		6	25	
Benzoguanamine	0556		100			100				
Benzoguanamine	5162	99	95 100	51		27	16		120	0.3 0.3
Benzoic acid	1025		100			100 100	67 67	59 59	18 18	0.3 0.3
1,2,3-benzotriazole	1026		100			100				
Benzoyl peroxide, 50 % (40 % benzoic acid, 10 % dicyclohexylphthalate)	1027		100			100				
Betaine hydrochloride	0557				93		85	78	<10	
Betaine monohydrate	0558	34	100	4		100			710	
Bis(2-tert.-butylperoxyisopro- pyl)-benzene, technical pur	1851	56	10	1		100			470	
Bisphenol A	4227		100			100				
Bisphenol A	4361								34	
Bisphenol ketylene	0559				98		80	60	15	
Brightener	1022			100		94 100	64		25	
Brightener, optical	0554								<10	
Brightener, optical	1604		100	96		55 100	21		56	
Brightener, optical (stilbene, pyrazoline derivative)	1023	100	93 100	38		16 100	5		130	
Brightener, optical	1603	100	78 100	18		6 100	1		190	
Butylhydroxy anisole	1029		7 100			100			620	
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
35	6.8	191	St 1	12					1
30			St 1						2(3)
60	8.8	173	St 1		<10 10/100 n.ind.		n.i.u.600		2(5)
15			(St 2)						2(5)
15			(St 2)						5(5)
15			(St 2)						
60	9.8	114	St 1			400		n.g.u.450	3
60	8.2	63	(St 2) St 1			510		n.g.u.450	5
200			St 1 St 1						2(5)
30	9.3	264	St 2		<4				5
	9.0	270	yes St 2	9					2(3)
30			(St 2)						
	n.i.					770		n.g.u.550	2
15			St 1						2
			St 1						2
30			St 1						2
15			(St 2)						2(5)

Product group 1.2.3 Intermediate products, auxiliary materials		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Calcium acetate	5552		100	91		51	32		59	0.7
Calcium acetate	0560			80	48	100	78	45	22	0.7
Calcium acetate	0561		100			100			85	
Calcium acetate	0561			74	41		25	17	92	
Calcium boride (CaB <sub>6</sub> )	1380					100				
Calcium boride (CaB <sub>6</sub> )	1896	97	97	96		96	96	98	<10	<10
Calcium glycerophosphate	1487			100		95	67		25	
Calcium hexalactate	1030		100			100				
Calcium salts of polycarbonic acids (30 % C, 4.5 % H, 5 % N, 19 % Ca)	1031		100	92		76	24		48	
Caprinoguanamine (2,4-diamino-6-nonyl- 1,3,5- triazine)	5187		61	38	24	15	10		160	0.6
Caprinoguanamine	0562	21		3		100	49	31	33	0.6
Carboxymethyl cysteine	3217		100			100	65		28	<0.1
Carboxymethyl dextran	4460		93			42		7	78	1.0
Casein (milk protein)	2313				99		65	40	24	1.0
Casein (85 % protein)	0563	100		2					225	10
Casein, acid	3480		100	63		20	5		105	10
Casein, acid, ground	3346	100	97	53		17	8		120	6.9
Casein, acid (raw material)	3345	14	2	1		100			700	11
Casein, lactic acid	1033		100	53		14	1		120	7.0
Caseinate (90 % protein)	1034		100			100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
250	6.3	57	St 1		>1000		600	410	2
250	6.5	21	St 1			680		n.g.u.460	2
500	5.2	9	St 1 St 1			730		n.g.u.460	2
200			St 1 St 1		1000/10000		n.i.u.600		4 2
200			St 1						2
100			St 1						2(2)
30			St 1						2
30			(St 2)		<10 <10 n.ind.		460	melts	3(3)
60	2.3	7	St 1			640		melts	2(3)
			(St 2) St 1						2
90	6.0	45	St 1			355		melts	
30	8.5	115	St 1			560		n.g.u.450	
	n.i.					550		n.g.u.450	2
30			St 1						
60	6.5	60	St 1		>100		540	melts	2
			St 1 St 1 St 1						2 2 2
	5.3	10	St 1						2
30			St 1						2
30			St 1						2

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Caseinate	3479	99	98	83		55 100 100	22		60	6.4
Caseinate, sodium	2314				100		99	77	17	
Caseinate, sodium (90 % protein)	2315			51	30		11		118	
Caseinate, sodium (85 % protein)	0564				26		9		125	
Castor oil, modified, cross-linked with peroxide	5461	83	22 100						360	0.6 0.6
Cavity powder	2350	83		38	29				195	
Cellulose, carboxymethyl	4420		100							10 10
Cellulose, carboxymethyl	4421		100							
Cellulose, carboxymethyl	0565				97		89		<15	
Cellulose, carboxymethyl	0566						82	26	24	
Cellulose, carboxymethyl	2316				92		62	35	26	
Cellulose, carboxymethyl	1381								28	
Cellulose, carboxymethyl	0567				50		20	12	71	
Cellulose, carboxymethyl	1035	94	100 65 100	36		100 15	7		180	
Cellulose, carboxymethyl	1382					100			<250	
Cellulose, carboxymethyl	2317	52							480	
Cellulose, methyl	4213					100				
Cellulose, methyl	4207					100				
Cellulose, methyl	2318				96		87	30	22	
Cellulose, methyl	2774								23	
Cellulose, methyl	2775								25	
Cellulose, methyl	2319				100		69	10	29	
Cellulose, methyl	2777								32	
Cellulose, methyl	2320				88				34	
Cellulose, methyl	2321				91		38	8	37	
Cellulose, methyl	2322				93		37	12	37	
Cellulose, methyl	2705								37	
Cellulose, methyl	2727								37	
Cellulose, methyl	2619								40	4.2
Cellulose, methyl	2776								40	
Cellulose, methyl	0568				83				44	
Cellulose, methyl	2323				89		29	17	44	
Cellulose, methyl	2324				83		11		44	
Cellulose, methyl	2972								44	
Cellulose, methyl	0569				70		26	8	44	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>S</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
45	7.5	105	St 1		>10		510	melts	2
60	8.8	117	St 1		>500 n.ind.				
60	8.8	138	St 1		>300	560		n.g.u.450	
					>100	590		n.g.u.450	
125	8.1	128	St 1						
15	n.i.		St 1			n.i.u.850		n.g.u.450	5(5)
115			yes				670	290	
			yes				390	290	
125	9.2	184	St 1						
125	9.2	136	St 1			350		310	3
125	8.8	77	St 1			370		310	
125	8.9	127	yes		100/10000				
			St 1			390		320	3
15			St 1						2
	n.i.				>10000				
	7.0	24	St 1		10 <sup>5</sup> /10 <sup>6</sup>	650		320	
	10.0	157	yes		15/30				
			St 1		>10	400		380	
			yes		10/100				
60	10.0	152	yes	15	10/100				
			St 1		>100	400		n.g.u.450	5
			yes		10/100				
15	9.1	121	St 1			430		melts	
30	10.6	266	St 2					melts	
	10.1	209	St 2		>10	410		450	5
			yes		30/100				
			yes		3/8				
			yes		100/300				
			yes		100/300				
	9.8	164	St 1						
	10.5	213	St 2			390		440	
	9.9	200	St 1			410		melts	
30	9.4	158	yes		30/300				
			St 1			400		420	

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Cellulose, methyl	2325				81		26		46	
Cellulose, methyl	2326				79		25	14	47	
Cellulose, methyl	2327			96	73		28	13	49	
Cellulose, methyl	1036			100		67	24		51	
Cellulose, methyl	2328				59				60	
Cellulose, methyl	2329			99	58		18	5	65	
Cellulose, methyl	4365								70	
Cellulose, methyl	2330			99	50		18	10	71	
Cellulose, methyl	0570				50		7	3	71	
Cellulose, methyl	0571			97	46				73	
Cellulose, methyl	0572				45		12		75	
Cellulose, methyl	0573				35		7		84	
Cellulose, methyl	2331			44	26				140	
Cellulose, methyl	2788								150	
Cellulose, methyl	0574				14		4	2	200	6.0
Cellulose, methyl	0575				16		7	5	205	11
Cellulose, methyl	0576				10		4		255	9.0
Cellulose, methyl	0577				5		2		270	
Cellulose, methyl	0578	99		8					290	
Cellulose, methyl	2332	79		22	14		10	9	290	
Cellulose, methyl	4424	58				5			430	
Cellulose, methyl/limestone/ sand (40:20:40)	2333			60	56	100			50	
Cellulose additive (60 % Na carboxymethyl cellulose, Al silicate, Mg formate, Ti dioxide)	2334				71		44	11	36	
Cellulose ether	0579				90		68	48	21	
Cellulose ether	0580				66		40		40	
Cellulose ether	1933	100	99	94		78	37		40	
Cellulose ether	0581				37	100			102	
Cellulose ether/calcium salts/ cellulose fibres (40:30:30)	1037		98			92	23		1	
Cellulose nitrate	2335	32				100			730	9.0
Cellulose nitrate, moistened with isopropanol	2336	14							1300	
Ceramic powder, recycled mixed ceramics (48 % titanium diboride, 39 % boron nitride, 11 % aluminium nitride)	5586							100	<10	0.4

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility		
						G-G	BAM				
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ		
60	9.9	233	St 2	14	100/300	410	380	melts	5		
	60	9.9	176			St 1		410		n.g.u.450	
60	9.5	108	St 1	10		410		melts			
	60	7.3	68			St 1		410		melts	
60	9.9	142	St 1	10		420		n.g.u.450			
	10.0	192	St 1			420		320			
	9.7	157	St 1			420		melts			
	10.2	200	St 1			430		melts			
	8.7	109	St 1			430		melts			
	9.5	134	St 1			460		435			
	9.2	108	St 1			530		n.g.u.450			
	8.8	77	St 1			380		380			
	8.0	49	St 1			380		330			
	3.2	85	St 1			380		330			
50	n.i.	35	St 1	yes		460		380		345	275
	7.8										
125	n.i.	141	St 1	yes		460		380		380	380
	8.2										
125	n.i.	123	St 1	yes		430		380		330	330
	8.5										
60	8.1	162	St 1	yes	(300)	380	345	5			
	125	8.7	104		St 1		(330)		275		
200	8.2	136	St 1	yes	340	380	210	210			
	200	8.2	136						St 1		
200	n.i.	150	St 1	yes	290	380	210	210			
	200								2.1	200	
	n.i.							2			

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Ceramic powder, recycled fine dust (54 % silicon carbide, 40 % silicon, 6 % iron)	5580					100	97	93	<10	0.7
Ceramic powder (93 % silicon nitride, 7 % lanthanum garnet)	5585			100		87 100	29		43	0.4 0.4
Ceramic powder (94 % silicon nitride, 1 % magnesium oxide, 1 % tungsten carbide, 4 % binder)	5582			100		83 100	21		47	0.6 0.6
Ceramic powder, silicon nitride	5581	97	93 100	74		60 100	29		58	0.3 0.3 0.3
Ceramic powder (97 % silicon nitride, 2 % magnesium oxide, 1 % tungsten carbide)	5583		100	92		51 100	31		60	0.7 0.7
Ceramic powder (89 % silicon nitride, 7 % lanthanum garnet, 4 % binder)	5584		100	97		43 100	13		70	1.2 1.2
Cetostearyl sulphate, sodium salt, 90 %	4228		100			100				
Cetyl alcohol	1740	25	8 100	5		4 100	2		900	
Cetyl trimethyl ammonium bromide (CTAB)	1742					100 100	95	39	23	
Chlorhexacarboxylic acid	4203					100				
Chlorhexacarboxylic acid anhydride	4204					100				
Chloroacetamide	1038	98	79 100	33		13 100	3		170	
Chloroethene homopolymer	4436		100			100				
Chloroethene homopolymer	4445	100	99			4 100		1	150	
Chloroethene homopolymer	4437	99				3 100		1	285	0.2 0.2
6-chloro-3-phenyl pyridazone-4-ol	5102	88	86 100	82		74 100	66		<10 <10 <10	11 0.6 0.6

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
1000			St 1						2
	n.i.		no						1
	n.i.								2
	n.i.		no						1
	n.i.		no						1
	n.i.								2
30	8.2	160	St 1		9/14		300		5
15			(St 2)						2(3)
<15	9.0	201	St 2						5(5)
	7.0	74	St 1						
	7.5	141	St 1						
100			St 1						2(2)
50			yes				300	melts	
50			yes			490			
			yes				640		
60	9.5	211	St 2						2(2)

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content			
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight			
Choline chloride powder	3286	1	100			100				2.3			
Cinnamic acid, moistured with water	5413	88	67	43		22	10		170	4.5			
			100								4.5		
Cinnamic acid, dry	5412	86	63 100	41		23	10		170	0.3			
													0.3
													0.3
Citraconic monohydrate	4429			100		100			36	0.3			
													0.3
Citric acid	4223					95			22				
Citric acid	1039	100	96	65		100							
						38	18		85				
Citric acid, anhydrous	3474	79	5	3		100							
						2	1		400	0.1			
Coconut aminodiacetate, sodium salt, neutral	4229		100										
Coconut oil	4231					100							
Condensation product, from acetone formaldehyde sulphite resin and phenol formaldehyde resin	1076	87	74	64		47	19		83				
			100										
Condensation product, from glycol and terephthalic acid	2347	81		22	13				290				
				2348	64	21	11				320		
Condensation product, phenolitic, 2,2'-methylene- bis-4-methyl-6-tertiary- butylphenol	0613						96	84	<10				
Condensation product, phenolitic, 4,4'-methylene- bis-2,6-dimethyl-phenol	0612				92		74	50	20				
Condensation product, sulphite modified ketone formaldehyde	1077	98	92	90		85	50		30				
			100										
Copolymer, based on methacrylate	5094		100	99		100							
						78	31		43	0.6			
Cyanoacrylic acid methyl ester	0587	69	100	20					260				
Cyanuric acid (>99 % 1,3,5-triazine- 2,4,6-triole), ground	1905			100		99	90		12				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
125	3.5	4	St 1 St 1		>10 <sup>6</sup>		430		3 3
30	9.0	242	St 2		<10 <10 n.ind.		470		2 (5)
30	8.9	241	St 2		<10 <10 n.ind.		470		2(5)
115			yes yes		1000/10000		540	melts	
100 60			St 1 St 1		>10				2(2)
125 30	7.5 6.9	73 90	St 1 St 1		5·10 <sup>5</sup> /10 <sup>6</sup> 9/15		370 270	300	5
100			St 1						2
15	7.1 5.6	54 20	St 1 St 1			530		melts melts	
30	9.0	161	St 1			410		melts	2(5)
15	8.2	171	St 1 (St 2)			560		melts	2(5)
200			St 1					400	2
60 30	9.8 10.1	288 269	St 2 St 2			500		n.g.u.450	5
	n.i.								5 2

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Cyclamate, natural	3186	97	52 100	13		4 100	2		240	0.3 0.3 0.3
Desulphurising agent (70 % techn. calcium carbide, 20 % dried high- volatile coal, 10 % Mg)	1061	100	94 100	83		77 100	69		9	
Desulphurising agent (70 % techn. calcium carbide, 30 % dried high- volatile coal)	1055	100	94 100	89		82 100	75		3	
Desulphurising agent (80 % techn. calcium carbide, 20 % dried high- volatile coal)	1056	100	96	91		85 100	75		5	
Desulphurising agent (84 % techn. calcium carbide, 16 % dried lignite)	1050		100	98		92 100	66		20	
Desulphurising agent (89 % techn. calcium carbide, 11 % dried lignite)	1051		100	98		93 100	61		21	
Desulphurising agent (89 % techn. calcium carbide, 11 % dried high- volatile coal)	1057		100	97		90 100	71		14	
Desulphurising agent (92 % techn. calcium carbide, 8 % dried lignite)	1052		100	99		90 100	71		15	
Desulphurising agent (92 % techn. calcium carbide, 8 % dried high- volatile coal)	1058		100	96		91 100	71		13	
Desulphurising agent (94 % techn. calcium carbide, 6 % dried lignite)	1053		100	99		94 100	69		19	
Desulphurising agent (94 % techn. calcium carbide, 6 % dried high- volatile coal)	1059		100	97		94 100	77		11	
Desulphurising agent (95 % techn. calcium carbide, 5 % dried lignite)	1054		99	97		94 100	81		6	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	kJ	°C	°C	°C	BZ
			St 1						5
			St 1						5
100			St 1						3
100			St 1						2
100			St 1						2
15			St 1						4
15			St 1						3
100			St 1						2
15			St 1						3
200			St 1						2
15			St 1						3
500			St 1						2
15			St 1						3

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Desulphurising agent (95 % techn. calcium carbide, 5 % dried high- volatile coal)	1060	89	79 100	74		70	62		11	
Dextran sulfate	4459	97	92			62			38	0.0
Diethoxylised bisphenol-A- dimethacrylate diacryl 101/ trimethylol propane trimeth- acrylate/gelatine	5244	100	99	59		22 100 100	9 36 36	5 5	110 36 36	1.9 1.9 1.9
4,4'-diaminodiphenyl methane	0590		100			100				
3,5-diamino-1,2,4-triazole/ sodium chloride (87:12)	1907	96	85 100	60		33	22		97	
Diazonium salt, arylsed	1383	64	35 100	11		4	2		360	2.4 1.8
Dibenzoyl peroxide, 50 %, with inorganic filler	1853	96	94	94	100	36 36	20 20	13 13	71 71	1.8 1.8
Dibenzoyl peroxide, 50 %, with solid softener	1850	100	82	7		3	1		215	
2,6-dichlorobenzonitrile	1040	69	61 100	54		42	30		110	
Dicumyl peroxide (>95 %)	1852	62	38	6		100			370	
Dicyandiamide	5175				99	100	98	97	<10	0.4
Dicyandiamide	2337					100	98	97	<10	
Dicyandiamide (with antiadhesive agent)	1384					100	98	91	<10	
Dicyanodiamide/acetogua- namine/starch (50:40:10)	1954	100	96	84		54 100	23		59	
Dicyandiamide-formaldehyde polymer	1385		100	95		82 100	21 29	7	45 36	
Dicyanoamide-sodium salt (3 % sodium chloride)	1906		100	99		55 100	30		49	
Didecanoyl peroxide (>97 %)	1041	28	13 100	4		2			830	
1,3-diethyldiphenyl urea	0588				100	98		93	83	<10
1,3-diethyldiphenyl urea	0589	8	100						1300	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
200			St 1						1
225	4.3	5	St 1			510		melts	5
60	8.1	132	St 1		<10 10/100 n.ind.		420		2(2)
15			(St 2)						2(2)
100			St 1						2
30			St 1		<10 10/100 n.ind.		580		5
30			(St 2)						5(5)
30			St 1						2(2)
30			St 1						2(5)
125	9.9	141	St 1		>10000		n.i.u.600		2(2)
200	3.7	9	St 1		>10000	n.i.u.850	n.i.u.600	n.g.u.450	2(2)
200			St 1						2(2)
250	6.8	84	St 1		1000/10000		n.i.u.600		2
100			St 1						2
<30	(7.8)	(234)	(St 2)						2(5)
15	8.8	163	St 1			530		melts	2(5)
30	8.7	116	St 1			600		melts	2(5)
			(St 2)						2(5)

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Dihydro-Dane salt	1904		100	88		46 100	21		65	
3,4-dihydro-2-methyl-3- tolyl quinczolinone(4)	0591		100	65	52		26		65	
Dihydroxyacetone	0592		100		64		37	26	46	
Dilauroyl peroxide (>98 %)	1042	22	12 100	5	100	2			1000	
Dilauroyl peroxide	1849	25	7	6		2	1		1100	
Dimelamine phosphate	2338				97		89	70	15	
Dimelamine phosphate (98 %)	1043	94	85 100	76		61	43		42	
Dimethyl aminoethyl-iso-thio urea	5101	97	94 100	42		10			145	0.8 0.8 0.8
1,3-dimethyldiphenyl urea	0593		100		73		45	21	34	
Dimethyl terephthalate	1044					100	91		14	
Dimethyl terephthalate	2339						60		27	
Dimyristyl peroxidicarbonate/ myristyl alcohol/myristyl chloroformate (93:5:2)	1045		100			100				
Diperoxy dodecandiacid 17 % DPDDA, 11 % DDA, 70 % Na <sub>2</sub> SO <sub>4</sub> x H <sub>2</sub> O	1519					100	98	92	<10	
Diphenyl urethane	0594	93	100	49	27				128	
Diphenyl urethane	0595	31	100						1100	
Disodium	3213	98	45 100	10		100 2	1		275	0.9 0.9 0.9
Disodium lauric acid monoethanolamido-sulpho- succinic acid halfester	1046	100	98	67		100 36 100	13		90	
Disodium lauryl alcohol sulphosuccinic acid halfester	1047	100	92 100	76		51 100	25		70	
Disodium salt of the ethylene diamine tetracetic acid	1048		100			100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			St 1						5
30	8.4	150	St 1			570		melts	1
60	9.4	176	(St 2) St 1			420		melts	3(5)
			(St 2)						2(5)
<30	(7.8)	(232)	(St 2)						2(5)
500	n.i.		St 1			n.i.u.850		n.g.u.450	1
	5.6	43	St 1						2
									2(2)
200			St 1						
15	9.3	212	St 2			530		melts	2(5)
15			(St 2)						2(5)
30	9.7	247	St 2	9	>2	460		n.g.u.450	5(5)
30			(St 2)						
100			St 1						5
30	8.9	218	St 2			660		melts	2
30	7.6	51	St 1			660		melts	2
			(St 2)						2
	n.i.								1
									1
			yes						5
30			St 1						
									5
30			St 1						2
100			St 1						

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Dispersion aid (based on vinyl acetate copolymers)	0596		100			100				
Dispersion powder	1386		100	99		96	86		10	1.8
Dispersion powder	1389		100	99		96	86		10	1.8
Dispersion powder	1390								31	
Dispersion powder	1387		100	98		85	48		34	0.9
Dispersion powder	1388	100	99	88		61	36	45	22	0.9
Dispersion powder	1391	100	98	87		100	71	42	48	1.9
Dispersion powder	1934	99	93	65		37	10		23	1.9
Dispersion powder, copolymer from vinyl acetate, ethylene with filler containing carbonate			100			100	36	8	80	1.2
Ditertiary butyl-p-cresol	0597	97		67	33		6		38	1.2
Ditertiary butyl-p-cresol	0598	11	100						90	
Ditertiary parabutylcresol	4423		100			100			1250	
Dye developer (N,N-diethyl-p-phenylene- diamine sulphate)	0604		100	85	29					0.0
Dye developer (4-amino-3-methyl-N,N-di- ethyl aniline hydrochloride)	0601		100	64	37		19		92	0.0
Dye developer (4-amino-3-methyl-N-ethyl- N-(β-hydroxyethyl)-aniline sulphate)	0600		100	49	37		25		97	
Dye developer (N,N-diethyl-p-phenylene- diaminehydrochloride)	0603		100	30	8				150	
Dye developer (N-[2-[N-Ethyl-N(4-amino-3- methylphenyl)-amino]-ethyl]- methanesulphonamide-ses- quisulphate (monohydrate))	0602	83	100	76		100			155	
						100			340	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>st</sub> Value	Explo-sibility	Limit. Oxy-gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibil-ity
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15			St 1						5
30	9.3	261	St 2		<10		430		3
			yes		<10 n.ind. 10/100				
			yes		100/1000 n.ind. 10/100				
					300/1000 n.ind.				5
30	8.3	156	St 1		10/100		420		5
30	8.5	149	St 1		10/100		450		2
60	8.0	106	St 1		10/100		480		5
30			St 1						
15	8.8	143	St 1			430		melts	2
<15	8.9	280	St 2			620		melts	2
								melts	
25	8.8	143	St 1	7			390	melts	
30	8.7	158	St 1			540		melts	2
			St 1						
15	8.4	188	St 1			530		melts	5
			(St 2)						
30	8.2	109	St 1			540		n.g.u.450	2
			St 1						
	8.9	165	St 1			500		melts	5
15			(St 2)						
60	7.3	54	St 1			590		n.g.u.450	2
			St 1						

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Elastine powder	1392			100		99	89		13	
Elastine powder	1619		100	97		86	28		35	
Elastine powder	1393			100		100	30		44	
Emulsifier (49.5 % carbohydrates, 30 % fat, 11.5 % protein)	2340			89	50		11		71	
Emulsifier	1739	73	25 100	8		3	1		390	
Enzymes, proteolytic from Carica Papaya	5284		100	98		100	81 60		27	1.1
Enzymes, proteolytic from Carica Papaya	5285		100	98		100	86 53		29	1.1 0.4
Esters of mono and diacetyl tartaric acid	2798								90	0.4
Ethene acetic acid ethenyl ester polymere	4404	99				4 100			220	
Ethoxycarbonyl hydroxy- methyl naphthiridine	1020		100			100				
2-ethoxy-4,δ-dihydroxy pyrimidine	1394			100		86 100	56 66	33	29 25	
Ethylene urea	1483		100	88		100	69 56		25 30	
Ethylene vinyl acetate copolymer	1021	100	39	4					290	
Ethylene vinyl acetate copolymer (with soot)	5012	95	38 100	7		1			290	
Evaporator material (TiB <sub>2</sub> , AlN, BN, W, B)	5261			100			100	83	<10	0.2
Evaporator material (TiB <sub>2</sub> , AlN, BN, W, B)	5262					100	96	86	<10	0.2
Evaporator material (TiB <sub>2</sub> , AlN, BN, W, B)	5263					100	98	87	<10	0.4
Fatty acid derivatives	1980		100	98		84 100	71		18	
Fatty acid derivatives (wire drawing agent)	1981	48	31 100	22		11 100	5		510	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
125	7.4	58	St 1 St 1 St 1		100/1000 n.ind.				2 2
30 30	9.6	167	St 1 St 1		15/50 >10	430	480	n.g.u.600 390	2
15			(St 2)						2(2)
30			St 1						2
30			St 1 yes		30/100				2
25			yes				450		2(5)
30			(St 2)						5
60	9.2	162	St 1		<10 100/1000 n.ind.		470		3(5)
30	n.i.		St 1						3(5)
30	n.i.		St 1 no						1
	n.i.		no						1
			St 1						4
30			St 1						2
30			St 1						2

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Fatty acid/Fatty alcohol/ Esters	5497	92	33 100	7 100		1	1		300	0.1 0.1 0.1
Fatty alcohol (C 12/18)	4239		100			100				
Fatty alcohol (C 16/18), ethoxylated	4238					100				
Fatty alcohols	1776	100	98	90		80 100	15		42	
Fatty alcohol sulphate	2989								100	
Ferrocene (dicyclopentadienyliron)	2341			71	33				95	
Filtration additive, high adsorption filter flakes (50 % perlite and kieselguhr, 50 % woodpulp)	5226	98	95 100	87		70	57		24	4.8 2.2 2.2
Filtration additive, high adsorption filter flakes	5328	98	97 100	89		72	57		24	3.4 1.6 1.6
Flocculant	0605				96	100	56	13	30	
Flocculant, based on esters of methacrylic acid	0606	99	100	26	3	100			265	
Flocculant	0607	50	100	8	2	100			500	
Fumaric acid	1062	100	75 100	24		100 15 100	11		215	
Galactomannan, ethoxylated	4212					100				
Glycerol monostearate palmitate (90 %)	1063		100			100				
Glycerol monostearate pal- mitate/calciumcarbonate/ tricalcium phosp. (70:20:10)	1064		100			100				
Guanidine carbonate	5069	99	94 100	45		14	3		135	0.4 0.4
Guanidine nitrate, 0.6 % sprinkling auxiliary	5006		100	98		99 97 100	88 92	67	15 <10	0.4 0.9 0.9
Guanidine nitrate (99 %), with sprinkling auxiliary	1397	96	93 100	87		84	56		27	
						100	82	22	24	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15			St 1						2(3)
30	7.8	95	St 1		3/10		250		5
125	7.8	70	St 1		10/30		360		
15			(St 2)						2(3)
15	8.3	267	yes St 2	7	30/300 >5	500		n.g.u.450	5
200			St 1						5
30			St 1		100/1000		450		5
60	10.0	174	St 1			450		330	3
250	7.2	34	St 1			450		n.g.u.450	3
	7.0	19	St 1			480		n.g.u.450	3
100			St 1						3
30			(St 2)						5
	7.1	82	St 1		30/300				2(2)
15			(St 2)						3(3)
15			(St 2)						2
<750	n.i. 1.9	5	St 1				n.i.u.600		2(2)
			St 1				400		
100			St 1		>10000		400		2(2)

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Guanidine nitrate (99 %)	1953	97	68 100	33		8	1		180	
Guanidine nitrate, 0.6 % sprinkling auxiliary	5005	97	62 100	23		100 7	1		210	0.4 0.4 0.4
Guanidine nitrate (99 %)	0609	85		25	12	100			215	
Guanidine nitrate	5176	95	56 100	16		4	1		240	0.3 0.3 0.3
Guanidine nitrate (99 %)	1952	95	51 100	15		100 1			240	
Guanidine phosphate, primary	1745	85	65 100	44		20			150	0.8 0.8
Guanine	5207		100	99		94 100	76 84	60	17 15	1.0 1.0
<b>H</b> ardener (dicyanodiamide, accelerator)	1398					100	99	75	12	
Hardener (filler mixture containing paraformaldehyde)	5193			100		94 100	72 74	64	19 14	9.4 9.4
Hardener (63 % kaolin, 27 % flour, 7 % wood flour, 3 % hardener)	1066		100	97		83	65		19	
Hardener (filler mixture containing hexamethylene tetramine)	5194		100	98		91 100	61 69	43	25 22	3.4 3.4
Hardener, epoxy resin, 98 % diuron (N,N-dimethyl- N'3,4-dichlorophenylurea)	1831					100	97	80	<10	
Hardener, epoxy resin, 98 % fenuron (N,N- dimethyl-N'-phenylurea)	1832					100	97	80	<10	
Hardener, epoxy resin, 98 % TDI urane (1,1'-4 (Methyl-m-phenylene)-bis- (3,3'-dimethylurea)	1833		100			98	89		<10	
Hardener, epoxy resin, 99 % 1H-imidazole, 1 % silicic acid	1828					100	94	59	16	

Lower Explos. Limit	Max. Explos. Over- pressure	$K_{St}$ Value	Explo- sibility	Limit. Oxy- gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Tempera- ture	Com- bustibil- ity
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
200	n.i.		St 1						2(2)
	n.i.		St 1			680	400	melts	2(2)
100			St 1						2(2)
100	n.i.		St 1						2(2)
250	8.8	96	St 1		>10000		n.i.u.600	n.g.u.600	2(2) 2
100			St 1		100/1000		n.i.u.600		2(2)
60	8.9	159	St 1		10/100		400	310	5
	3.5	29	St 1						2
100			St 1		10/100		420	280	4
60	9.5	195	St 1						2(5)
60	9.3	266	St 2						2(5)
60	9.3	212	St 2						2(5)
60	9.8	223	St 2						3(3)

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Hardener, epoxy resin	2342				97		85	60	17	
Hardener, epoxy resin, 82 % calcium carbonate, 18 % 2-phenyl imidazoline	1399	100	98	92		79	66	60	17	
Hardener, epoxy resin	2343			97	86		71	52	19	
Hardener, epoxy resin, 99 % 2-phenylimidazoline, 1 % silicic acid	1830	80	75	72		65	52		27	
Hardener, epoxy resin, phenolic resin amine adduct, 3 % phenol	1400	95	81	69		49	30		69	
Hardener, epoxy resin, 99 % 2-phenylimidazoline, 1 % silicondioxide	1401	49	45	31		23	19		510	
Hexamethylenetetramine	0610				100		74	19	27	
Hexamethylenetetramine	2346	100		30	9		69	42	27	155
Hexamethylmelamine	0611				73		35	28	43	
Hydrazobenzene	1069		100			100				
1-hydroxy-2-(1H)-pyridine thiondisulphide	1071						100		<1	
12-hydroxystearic acid	4225		100			100				
Imidazole derivative (≥25 %)	1402		100	99		90	70		18	
Impact strength promoter, acrylic copolymer	1860	100	98	75		100	83	57	17	
Impact strength promoter, acrylate polymers	1108	100	94	56		100	22	7	115	
Impact strength promoter, vinyl chloride polyacrylate graft copolymer	1859	94	73	44		100	25	10	150	
Ion exchanger, cellulose	0582					100			<10	
Ion exchanger, cellulose	0583								<10	
Ion exchanger, cellulose	0584				27		9		112	
Ion exchanger, cellulose	0585	56		5					380	
Ion exchanger, cellulose	0586	63	100	5		100			430	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	10.0	64	St 1		>10000	n.i.u.850	510	melts	2 3
			St 1						
60	9.6	83	St 1			n.i.u.850		melts	2(5) 5(5)
30	9.5	295	St 2						2(3)
30	9.4	259	St 2		<10 <10 n.ind.		350		3(5)
15			(St 2)		<10 <10 n.ind.		450		
30	10.5 10.0 10.0	286 224 194	St 2 St 2 St 1			530		melts	1(5) 5(5)
15 15			(St 2) (St 2)						5
30	6.4	46	St 1		1000/3000				
60	8.6	145	St 1		<10 10/100 n.ind.		560		5 5(5)
30	9.1	241	St 2						5(5)
<15	(7.7)	(120)	(St 1)						3
15			St 1						
60	10.0	91	St 1			410		n.g.u.450	5
60	9.7	76	St 1			440		n.g.u.450	5
30	9.4	112	St 1			(350)		n.g.u.465	
	8.3	59	St 1			490		n.g.u.450	5
30	n.i.		St 1			500		430	
30			St 1						5

<b>Product group 1.2.3</b> <b>Intermediate products,</b> <b>auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Ion exchanger, synthetic resin	1072		100			100				
Ion exchanger, synthetic resin	1073		100	95		63 100	35		43	
Iron (II) succinate	1049	100	99	48		17 100	7		110	
Isomalt	1074	98	79 100	56		38 100	24		100	
Isophthalodinitrile, 98 % (benzene-1,3-dicarbonitrile)	1403		100 100	96 96		93 93	85 85		<10 <10	0.1 0.1
<b>K</b> etogulonic acid (hydrated sugar)	5450	99	76 100	56		36 100	18 51		100 30	0.2 0.2 0.2
<b>L</b> actobac acid	2661								130	3.5
Laurate, cadmium	2710								22	
Laurate, cadmium	4362								<63	
Lauryl sulphate, sodium salt (90 %)	4217					100				
Lead fumarate, pentabasic	1377						100	99	<10	
Lead phosphite, dibasic	1522			100		99	94		<10	1,3
Lead phosphite, dibasic	1378					100	90	50	20	0,1
Lead phosphite, dibasic	1560		100			100				0,4 0,4
Lead phthalate	2714								<10	
Lead phthalate, basic	1559		100							
Lead soap of a low molec. fatty acid	1523			100		94 100	69		23	
Lead sulphate, tetrabasic	1379							100	<10	
Lead sulphate, tribasic	1558			99		99	98	63	<10	
Lithium-1,2-oxysearate	4417		100							
Lubricant (45 % graphite, 35 % zinc sulphide, 10 % molybde- num disulphide, 10 % calci- um fluoride)	1113					100 100	95		3	
Lubricant (50 % graphite, 30 % zinc sulphide, 10 % antimony trisulphide, 10 % tricalcium phosphate)	1111					100	98		4	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			St 1						2
15			St 1						2
15			St 1						2
60	6.1	50	St 1						2(3)
60	10.3	294	St 2		<10 <10 n.ind.		n.i.u.600		2(5)
125	8.9	130	St 1		10/100		390	460	2
<15	8.3	208	yes yes yes St 2	14	30/300 2/4 9/15		260		
125	5.1	97	St 1		>10000		490	320	4
8000			St 1		100/1000		n.i.u.600	320	4
4000			St 1				n.i.u.600	320	4
	n.i.				>5				4
			St 1						3
			yes St 1		>10000		360	340	2
	n.i.								2(2)
30			yes				550	melts	
60	4.4	47	St 1						2
60	3.8	45	St 1						

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Lubricant (50 % graphite, 30 % zinc sulphide, 10 % molybdenum disulphide, 10 % calcium fluoride)	1112					100	96		9	
Lubricant (50 % graphite, rest zinc sulphide, tricalcium phos- phate, antimony trisulphide, calcium fluoride, sulphur)	1606		100	98		97	89		<10	0.3
Lubricant, high temperature	5514	100	99 100	95		90	80		<10	1.1 1.1
Lubricant, high temperature	5560	94	86 100	70		100 52	40		51	1.1 5.1 2.6
Lubricant, high temperature	5559	100	95 100	80		100 41	22		80	2.6 1.8 1.8
Lubricant, high temperature	5513	94	86 100	58		100 30	21		105	1.8 3.5 2.4 2.4
<b>M</b> agnesium peroxomonoc- phthalate hexahydrate	1078	62	33 100	19		14 100	12		400	
Malic acid	3199	12	1 100	1		1 100			1000	<0.1 <0.1 <0.1
Mannitol	1079		100	99		87 100	63		25	
Mannitol (0.6 % sorbite)	5352	100	98	88		65 100	50		32	0.4 0.4
Mannitol, D(-)	0615		100		61		24	13	67	
Matting agent (ammonium iron salt of ethylene diamino tetra- acetic acid)	1080		100			100				
Melamine	0616				98		95	88	<10	
Melamine	5447	98	98	96		94 100	79		<10	0.4 0.4
Melamine	1408					100	89	73	12	
Melamine/boric acid (70:30)	1750	99	95	85		76 100	71		<10	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	3.8	26	St 1				n.i.u.600	630	2
30	6.0	103	St 1						2
	n.i.								2
200			St 1						2
30			St 1						3
1000			St 1						2
100			St 1						2
			St 1						1
			St 1						2
30			(St 2)				410	melts	2(5)
125	8.7	115	St 1						2(5)
60	7.6	54	St 1			460		melts	
			St 1						2
			yes				530	260	2
1000	0.5	1	St 1			n.i.u.850		n.g.u.450	2
			St 1						2
100			St 1		>10000		n.i.u.600		2
			St 1						2
100			St 1						2

<b>Product group 1.2.3</b> <b>Intermediate products,</b> <b>auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Melamine/boric acid (70:30)	1751	100	99	98		84	59		25	
Melamine borate (97 %)	1081	95	83 100	56		34	17		110	
Melamine cyanurate	2351					100		99	<10	
Melamine formate	0617				96		62	24	28	
Melamine oxalate (98 %)	1082			100		98 100	89		9	
Melamine oxalate	2352				98		90	77	10	
Melamine peroxide	0618		100		61		56	46	24	
Melamine phosphate	2353				100	100	94	40	22	
Melamine phosphate (98 %)	1083					100	79		22	
Melamine phthalate	0619				99		89	65	16	
Melamine polycondensate, sulfonated	5505		100	86		39 100	15 50	24	71 32	1.0 1.0
Melamine pyrophosphate (98 %)	1084					100	87		16	
Melamine sulphate (98 %)	1085			100		99	79		14	
Melone (H <sub>3</sub> C <sub>6</sub> N <sub>9</sub> )	1086	100	99	93		85 100	70		15	
Metallic soap, based on barium/lead stearate	1087		100	45		25 100	12		125	
Metallic soap, based on barium/cadmium stearate (Cd-content 12 %)	1088	7	2 100	2		1	1		1500	
Metallic soap, lead soap (80 % lead)	1089					100	98		5	
Metallic soap, based on zinc behenate	1090			100		95 100	76		18	
Methacrylamide	2645								140	3.8
Methacrylamide	2354	42							580	
Methacrylamide	2355	30	5						650	
Methacrylic acid amide	0620		100						750	
2,2-methylene-bis(4-methyl- 6-tert-butylphenol)	1514			100		100 98	92		<10	
3-methyl-2,5-furandione	4428					100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			St 1						2
	n.i.		St 1						2
	n.i.		St 1			n.i.u.850		melts	2
500			St 1			n.i.u.850		n.g.u.450	2
	n.i.		St 1						2
250	12.2	73	St 1			n.i.u.850		melts	2
			St 1			n.i.u.850		380	2
	n.i.		St 1			n.i.u.850		n.g.u.450	1
			St 1						2
125	8.1	52	St 1			910		melts	2
250	7.5	58	St 1		>10 <sup>5</sup>		n.i.u.600	460	2
			St 1						2
	(6.2)		yes						2
			St 1						2
200			St 1						2(2)
15	8.1	180	St 1						3(2)
			(St 2)						4
			St 1						2(3)
<15	8.1	119	St 1		300/3000				
			yes		>100				
	8.5	113	St 1			530		n.g.u.450	
30	8.7	97	St 1			500		n.g.u.450	
15	9.2	125	St 1			510		melts	2(5)
			(St 2)						
			(St 2)						2(5)
110			yes				505	melts	

<b>Product group 1.2.3</b> <b>Intermediate products,</b> <b>auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
5-methyl-7-hydroxy-1,3,4- triazaine dolizine	5209	99	97	72		29 100	20		92	0.2 0.2
2-methyl imidazole, 2 % antiadhesive agent	5393					100 100	99 99	97 97	<10 <10	1.8 1.8
Methylpyridylaminomethylene malonic acid diethyl ester	1091		100			100				
Methylvinylether/maleic acid anhydride copolymer	1092		100	65		47 100	39		77	
Mono and diglycerides of edible fatty acids	1650		100			100				
Mono and diglycerides of edible fatty acids	1396	100	98	82		68 100	42		42	0.8 0.8
Mono and diglycerides of edible fatty acids	1649	97	62 100	23		6 100	2		220	
Monocarboxylic acid/ palmitine/stearic acid	5498	88	31 100	7 100		2 100	1		340	0.1 0.1 0.1
Monosodium hydrogen cyan- amide (88 % NaHCN, 5 % dicyandiamide)	1093		100	93		50 100	20		62	
Montmorillonite derivative (used)	2962								<10 <10	
Montmorillonite derivative (used)	2963								16 16	
Montmorillonite derivative	4010								175	27
Montmorillonite derivative	4005								340	41
N-(2-hydroxyethyl)-N-methyl- guanidiniumsulphate (2:1)	1070	93	71 100	31		7 100	1		180	
N-carbobenzoxyl-L-threonine amide	1032	65	53 100	47		32 100	25		180	
N-methyl-N'-diphenyl urea	0622				84	100	66	50	20	
Naphthalic acid anhydride	1094		100			100				
Naphthalic acid anhydride	2357						97	69	16	
Naphthaline	2356	89		66		35	12		95	
Naphthaline sulphonic acid formolite (5 % sodium sulfate)	1409		100 100	88		45 100	15 42		66 35	
2-naphthol	2358				100		96	94	<10	
2-naphthol	4366								<30	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	9.7	219	St 2						2(3)
60	9.7	247	St 2		<10		n.i.u.600	melts	3(5)
					<10 n.ind.				2(5)
15			(St 2)						5
30			(St 2)						2(2)
15	7.7	125	(St 2)				300		2(2)
15			St 1		<10		280		2(2)
15			(St 2)				300		2(2)
30			St 1						2(3)
200			St 1				600	melts	2(2)
			yes		<1				
			yes		<1 n.ind.				
					2/6				
					10/30 n.ind.				
					>1000				
					>1000				
100			St 1					melts	2(2)
30			St 1						2(5)
30	9.1	217	St 2			680		melts	2
								melts	2(5)
<15	8.1	195	St 1				n.i.u.600		
60	9.0	90	St 1	12	>3	690		melts	
15	8.5	178	St 1		<1	660		n.g.u.450	(5)
								520	3
200			St 1		1000/10000		n.i.u.600		
	8.4	137	St 1	9	>5	430		n.g.u.450	
				9					

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Naphtholsulphonic acid, diazo	1095	57	32 100	26		22	12		400	
Naphtholsulphonic acid, diazo	1410	51	42 100	26		22	13		450	
Naphtholsulphonic acid, chloride, diazo	1096					100 100	90		16	
Naphthol sulphonic acid chloride, diazo	1411					100	91	58	17	
Naphthyl aminosulphonic acid (A-acid)	0623				100		99	55	20	
Nitrobenzoic acid, para	1101		100							
5-nitrofurylacrolein	1102	100	96	84		100 65	47		35	
Nitroguanidine	0627						97	88	<10	
Novolak/hexamethylene tetramine filler mix	5192			100		97	83		14	3.0
Novolak/hexamethylene tetramine mix	5191			100		97	83		14	3.0
Novolak/hexamethylene tetramine mix	5190			100		99	82		15	1.9
Novolak/hexamethylene tetramine-lubricant mix	5190			100		99	82		15	1.9
Novolak/hexamethylene tetramine-lubricant mix	5190			100		96	74		19	2.1
Novolak/hexamethylene tetramine-lubricant mix	5190			100		96	74		19	2.1
o-methyl isourea sulphate	0621	99	5						235	
o-phenylenediamine	0630		100						>3000	
Octadecanoic acid calcium salt	4416		100			100				
Octadecanoic zinc	4418	100	100			100		20	59	
Octyl sulphate, sodium salt, 90 %	4218					100 100				
Oil absorber (hydrophobated cellulose)	2361			65	51		31	21	65	
p-(benzyl oxycarbonyl)- amidine benzyl amine hydrochloride	5402									
p-chlorobenzonitrile	1482	99	95	81		63	38		45	
p-chlorobenzonitrile	5214	75	68 100	59		45	41		72	5.1 4.8 4.8



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			St 1						4
100			St 1		>10000		n.i.u.600	220	3
100			St 1						4
100			St 1		<10		n.i.u.600	440	4
	8.2	154	St 1						
15			(St 2)						5(5)
15			(St 2)						2(5)
30	n.i. 8.7	218	St 2		<10	n.i.u.850	510	melts 500	1(5) 2
30	8.9	212	St 2		<10 n.ind.		520	490	2
30	8.8	244	St 2		<10 n.ind.		530	490	2
	n.i. 2.5	6	St 1				620 680	melts melts	
15			(St 2)						1(1)
30			yes				460	melts	
30	7.4	153	St 1				610	melts	
<15	8.3	220	St 2		100/300		520 280		
60	7.2	42	St 1				540	n.g.u.450	
30			yes						5
30			St 1						2(5)
15			St 1					melts	2(5)

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
p-cresol, alkylated	0614		100			100				
p-nitroaniline	0626						97	90	<10	
Para-tert. buthyl phenol	2811								53	
Paraffin (abrasive)	1731	95	91	89		69	31		53	
Paraffin (powder)	5587	61	14	2		100			43	0.2
Paraffin	1524	21	1			1			460	0.2
			100						590	
Paraffin	1752	28	4	1		100			600	
Paraformaldehyde	0628				89		65	41	23	
			100			100				
Paraformaldehyde	2362				86		58	37	27	
Paraformaldehyde	4367								27	
Pectin	2363			86	61		21		59	
Pectinase (enzyme)	2364				91		47	20	34	
			100							
Pentaerythritol	2365				100		98	86	<10	
Pentaerythritol	2366				100		98	86	<10	
Pentaerythritol	2367			90	33		6	3	85	
			100							
Pentaerythritol	2368			96	31		7	4	87	
Pentaerythritol	2602								90	
									90	
Pentaerythritol	2663								90	9.7
									90	0.4
									90	0.4
Pentaerythritol	1842	95	91	54		21	13		105	
						100				
Pentaerythritol	4052								125	
Pentaerythritol	4053								125	
Pentaerythritol	2369	86		47	36		20	12	135	
			100							
Pentaerythritol	0629			24	11				175	
Pentaerythritol	2370	90		19	8				230	
			100							
Phenol novolak	2606								<20	
									<20	
Phenol novolak/hexamethy- lene tetramine mixture	1413					100	90	62	17	
						100	90	62	17	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ.
15 30	11.7	183	(St 2) St 1 yes		2/5 2/5 n.ind.				2(3)
15 30			(St 2) St 1						2(2) 2(3)
	n.i.		St 1						2(2)
60	9.9	178	St 1 St 1			460		n.g.u.480	5
60	10.7	222	(St 2) St 2 yes	7 6		460		n.g.u.450	
60	9.5	162	St 1			460		300	
60	10.6	177	St 1		>100	510		n.g.u.450	
30	9.6	120	St 1	11	<1	470		melts	3 2(5)
60	9.3	103	St 1	11	<1	480		melts	2(5)
30	9.1	188	St 1		>6	490		melts	
30	8.8	120	St 1 yes		>5 10/30 <30 n.ind.	480		melts	5 5
			yes		4/9 2/5 10/30 n.ind.				
30			(St 2) yes yes		10/30 7/13 >10				2(5)
30	9.0	158	St 1					melts	
30	7.7	65	St 1						5
60	8.7	158	St 1		>5	490		melts	
			yes		2/4 3/7 n.ind.				5
30	9.1	228	St 2		<10 <10 n.ind.		520		2

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Phenyl guanidine nitrate	1725	75	48 100	34		25	17		260	
Phenylglycine, D-L	4422					100		100		
Phthalazone	2371				92		47	14	33	
Phthalic acid anhydride	0631		100			100				
Phthalic acid anhydride	1104			100		96 100	70		22	
Polycarbonic acid, spray dried	1106						100			
Polycarbonic acid	1107					100	94	82	8	
Polycarbonic acid, spray dried	5148					100	91	55	18	1.9
Polyethylene glycol	5470		100	90		67 100	44		40	0.5 0.5
Polyethylene glycol	2770								43 43	
Polyethylene glycol	2771								54 54	
Polyethylene glycol	2772								210	
Polyethylene glycol	5472	96	50 100	12		4	2		250	0.3 0.3
Polyethylene glycol	5471	88	21 100	5		4	3		400	0.3 0.6 0.6
Polyethylene glycol	2773					100			700	
Polyethylene oxide	1105	99	83 100	53		29	14		115	
Polygalactomannane derivative	5211			100		100 95 100	72		18	4.4 4.4
Polyisocyanate, caprolactam blocked	2837								19 19	
Polymer, cationic, 0.1 % to 0.2 % formaldeh.	5206	98	93	90		75	16		50	0.0
Polyol	3512	56	6						480	0.1 0.1
Polyoxirane	4411		100			100				
Polyphenylene oxide	2718					100			27	
Polysaccharide	1109					100	78		23	
Polysaccharide derivative	0632				91		59	33	28	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>S</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30 40 30	9.2	182	(St 2) yes St 1			590	390	n.g.u.450	2(3) 5
30			(St 2)						2(5)
15 30	7.5	87	(St 2) St 1						2
200 125	8.2	137	St 1 St 1					440	2 2
30	8.9	142	St 1 yes yes yes		2/5 10/30 n.ind. 4/8 100/300 n.ind. 100/300				2(3)
30	8.8	141	St 1						2(3)
30	8.5	119	St 1		>1000				2(3)
15			(St 2)						3(5)
200			St 1 yes						3
250	7.9	99	St 1		<1 <1 n.ind. 1000/10000		n.i.u.600	570	2
			yes		>10		430		2
40	7.6	89	St 1 yes St 1		2/3	290	380	melts	
200 125	9.5	63	St 1			580		270	4

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Polysaccharide mixture, 0.5 % to 2.0 % caustic soda	5213	100	98 100	75		47 100	29		69	6.0 3.2 3.2
Polyvinyl butyral	2640								36	1.8
Polyvinyl cinnamate	1414	90	60 100	18		7 100	1		230	
Polyvinyl cinnamate	1110	81	49 100	21		9 100	1		250	
Potassium methylate	1075		98			89 100			4	
Potassium sorbate	2630								<20	
Preservative	2349				70		53	47	26	
Propane, 2,2-bis(4-hydroxy-phenyl)-	2807								1350	
Propylene glycol alginate	2372			57	24				1350	
Protein fatty acid condensate, anion-active, neutralised	0599		100			100			115	
PVC additive, based on acrylates	0633		100			100				
PVC additive, based on MBS resins	0634		100			100				
Pyridinium propyl sulphonate	4027								60	
Pyridinium propyl sulphonate	1415	97	91	75		47 100	21 55		70 29	
Pyromellitic acid dianhydride	0635				99		96	92	<10	
<b>Quinaldine formamite</b>	2803								190	
<b>Rape oil, cross-linked with sulphur chloride and added inorg. stabilisers and mineral oil</b>	5462	95	20 100						340	1.0 1.0
Rape oil, cross-linked with sulphur and hydrogen sulphide	5459	16 100	3						3000	0.4 0.4
Rape oil, hardened, cross-linked with sulphur, with paraffin oil	5460	17 100	8						4400	0.4 0.4
Resin soap, dried and ground	1067		100			100				
Resin soap, dried and ground, 6 % sodium hydroxide	1068		100			100				

Lower Explos. Limit	Max. Explos. Overpressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			St 1 yes		30/300				2
15			(St 2)		<10		460	510	5(5)
30			(St 2)						5(5)
30			St 1 yes		8/13 6/12 n.ind.				5
	8.2	76	St 1 yes		1/3 1/3 n.ind.	440		melts	
125	8.8	82	St 1			440		450	2
30			St 1						5
15			(St 2)						5
15			(St 2) yes		30/300				
30	9.0	175	St 1		10/100		470		3(5)
60	9.6	228	St 2			630		melts	2(3)
			yes		100/300				
30			St 1						2(5)
100			St 1						2(3)
15			St 1						2(3)
30			St 1						2(3)
30			St 1						3

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Resin/polyethylene/softener	5386	100	89 100	58		31  100	19		105	0.3 0.3 0.3
Saccharine, natural	3185	97	26 100	7		4  100	3		350	8.5
Salicylic acid	0636		100			100				
Salicylic acid	1416								<43	
Salicylic acid	1417	100	99	94		64 100	30		48	
Saponin	0637				93		77	65	13	
Scleroglucane biopolymer	5376		100	97		100 67 100	39 45	24	43 35 108	6.6 6.6
Sebacic acid	2871								108 108	
Silicic acid	3490					100	89			2.7
Silicic acid	2885								130	
Silicic acid	2886								165	
Silicic acid, hydrophobised, high dispersive	5043						100	99	<10	2.0
Silicic acid, hydrophobised, high dispersive	1404					100	98	92	<10	
Silicic acid, hydrophobised, high dispersive	5310			100		99	93		<10	0.9
Silicic acid, hydrophobised, high dispersive	1913					100	93	78	12	
Silicic acid, hydrophobised, high dispersive	1914					100	94	71	15	
Silicic acid, hydrophobised, high dispersive	5313					100	96	70	15	1.4
Silicic acid, hydrophobised, high dispersive	5314						100	78	15	1.8
Silicic acid, hydrophobised, high dispersive	5307			100		96	71		20	1.1
Silicic acid, hydrophobised, high dispersive	1915					100	79	48	21	
Silicic acid, hydrophobised, high dispersive	5345					100	66	44	23	1.0
Silicic acid, hydrophobised, high dispersive	5308		100	99		80 100	38		39	0.6 0.6
Silicic acid, hydrophobised, high dispersive	5309		100	98		79 100	38		39	0.8 0.8



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	9.0	213	St 2						2 (5)
15			St 1 (St 2) yes		<10				2 2 2(5)
15	9.4	150	(St 2) St 1		<10 n.ind.	440		n.g.u.450	2(5) 3
60	8.7	107	St 1 yes		10/100 7/13 100/300 n.ind.		390	300	2
	n.i.		no						1
200	5.5	59	St 1		>1000 >1000 >5·10 <sup>5</sup>				1
			St 1		1000/10000		490		2
	n.i.								2
	5.2	55	St 1		>5·10 <sup>5</sup>		490		1
	n.i.								1
500			St 1						2
	n.i.								2
	n.i.								2
	n.i.								1
	n.i.								1
500			St 1						2
200			St 1						2

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Silicic acid, hydrophobised, high dispersive	5311	99	92	78		65	41		40	1.3
			100			100				1.3
										1.3
Silicic acid, hydrophobised, high dispersive	5344	96	88	66		58	40		50	1.6
			100							1.6
Silicic acid, hydrophobised, high dispersive	5312	93	87	68		56	35		55	1.4
			100							1.4
										1.4
Silicic acid, hydrophobised, high dispersive/amorpous Carbon (90:10)	5110			100		89	55		30	1.9
Silicic acid, pyrogenic, hydrophobised, high dispersive	1916					100	84	52	19	
Silicic acid powder	3385						100			2.8
Silicic acid powder	3386						100			4.9
Silicic acid powder	3394						100			1.1
Silicic acid powder	3395						100			1.8
Silicic acid powder	3440						100			2.6
Silicic acid powder	3383			100		99	50		32	2.5
						100				2.5
						100				2.5
Silicic acid powder	3384			100		87	44		36	2.3
						100				2.3
						100				2.3
Sodium acetate/residue containing zinc oxide	1927	90	78 100	55		32	14		110	
Sodium adipate, di-	1540	91	79	59		45	35		76	
			100							
Sodium alcohol sulphate	1909		100	97		100	51	26	31	0.4
										0.4
Sodium alcohol sulphate	5068	100	97	83	100	62	35		50	0.6
				100						0.6
										0.6
Sodium amide	0624		100			100	47	18	35	0.6
						100				0.6
						100				0.6
Sodium benzoate	1098	73	48	31		22	15		255	
			100							
Sodium bicarbonate	3055	30	4	2		1			900	
			100							
Sodium calcium edetate	2897					100			<10	5.5

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
500			St 1						2
500	6.0	58	St 1						2
200	n.i.		St 1						2
	n.i.		no						1
250	5.6	29	St 1		>10 <sup>6</sup>		n.i.u.540	n.g.u.550	1
250	6.2	41	St 1		10 <sup>5</sup> /5-10 <sup>5</sup>		n.i.u.540	n.g.u.550	3
125	5.8	31	St 1		>10 <sup>5</sup>		n.i.u.540	n.g.u.450	1
60	7.2	99	St 1		>1000		540	n.g.u.450	2
125	5.7	29	St 1		>10 <sup>5</sup>		n.i.u.540	n.g.u.500	2
30	7.3	152	St 1		5/10 10/100 n.ind.		470	n.g.u.550	5
30	6.9	159	St 1		5/10 5/10 n.ind.		470	n.g.u.550	2
200			St 1						2
30			St 1						2
30	8.8	190	St 1						5
			yes		<10 <10 n.ind.		280		5
100			(St 2)						2
30			St 1						2
	n.i.		no		>1000				1

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Sodium carbonate/sodium lauryl sulphate/colouring (95:4:1)	5033	100	98	88		52 100	35		50	
Sodium cyclamate	3056	97	52 100	13		5 100	2		240	
Sodium dibunate	1657	98	81 100	58		40 100	27		95	
Sodium ethylate	1097		98			60 100			50	
Sodium glutamate	3293	100	88	62		39	11		90	0.0
Sodium-L-glutamate monohydrate	0625				98		83	54	14	
Sodium hexametaphosphate/ aroma (99:1)	5034	93	78 100	45		21	16		140	0.8 0.8 0.8
Sodium humate	1412		100	98		90 93 100	20 72		42 18	
Sodium hydrogen carbonate/ colouring (98:2)	5031			100		99	88		10	
Sodium hydrogen carbonate/ sodium perborate/aroma (50:40:10)	5032	95	46 100	13		6 100	6		300	
Sodium hydrogen cyanamide	2359			95	90		28	8	40	
Sodium hydrogen sulphate (ground sodium bisulphate)	5035	97	83 100	51		22	4		120	
Sodium lignin sulphonate	1099			100		100 63 100	49 20	3	33 58	
Sodium methallyl sulphonate	2360	97		8					280	
Sodium methylate	1100		98			95 100			<10	
Sodium oleate	5075	83	55 100	27		16 100	11		245	2.0 1.0 1.0
Sodium perborate anhydride/ sodium hydrogen carbo- nate/colouring (75:25:<1)	5036	100	93 100	72		41 100	14	19	34 86	
Sodium sulphate/aroma (99:1)	5037	99	72 100	24		8 100	3	19	40 200	
Sodium tripolyphosphate/ polyglycol/colouring (95:4:1)	5030	98	86 100	59		31 100	5		105	
Solid dispersion	1395			100		99	94		<10	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			St 1						2
			St 1						5
30			St 1						5
100	5.4 n.i.	29	St 1 St 1		>10 <sup>6</sup>	480	n.i.u.540	n.g.u.450	5 2
	n.i.								1(1)
30	n.i.		St 1		>10000		570		2
125	7.0	47	n.i. St 1			460		melts	1
	n.i.		no						1(1)
100 125	8.2	82	St 1 St 1	15		450		n.g.u.450	2 5
100 60	8.1	111	St 1 St 1						2(3)
15			St 1		100/1000		530		1
	n.i.		no						1
			n.i.						2(2)
100			St 1 St 1		10/100		480		2(3)

Product group 1.2.3 Intermediate products, auxiliary materials		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Stabiliser	1418	99	97	88		73 100	60		23	
Stabiliser	2707								38	
Stabiliser, anion-active	0638		100	47	16		4		130	
Stabiliser	3468	96	71 100	45		100 23	11		140	
Stabiliser, for PVC	2373				99		98	94	<10	
Stabiliser, for PVC	2374				97		93	75	<10	
Stabiliser, for PVC	2375				94		85	69	12	
Stabiliser, for PVC	2376				99		95	81	15	
Stabiliser, for PVC	2377				96		91	20	15	
Starch ether	4037								<23	
Stearate, aluminium	0639		100							
Stearate, aluminium	4414					100				
Stearate, aluminium di-	2701					100			13	
Stearate, barium	1114			100		99	76		17	
Stearate, barium	4360					100			<63	
Stearate, cadmium	2382				99		94	86	<10	
Stearate, cadmium	2711								17	
Stearate, cadmium	4363								<63	
Stearate, cadmium, myristinate	2709								18	
Stearate, calcium	2383				99		92	84	<10	
Stearate, calcium	2384						92	80	<10	
Stearate, calcium	2385						87	78	<10	
Stearate, calcium	2668								11	
Stearate, calcium	0643				98		90	75	12	
Stearate, calcium	1419								12	
Stearate, calcium	0644				98		85	64	15	
Stearate, calcium	2621								<20	
Stearate, calcium	4364								<63	
Stearate, calcium	2386	100		43	25				145	
Stearate, calcium, sintered	2387	100		13	6				220	
Stearate, calcium/PPN powder (1:2)	2388	99		30					172	
Stearate, calcium/PPN powder (1:4)	2389	99		15	12				200	
Stearate, calcium/talcum (90:10)	1420								12	
									12	

Lower Explos. Limit	Max. Explos. Overpressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	8.0	50	St 1 yes St 1		10/100 10/30		420		3
30			St 1			670		n.g.u.450	2
60	7.0 9.1 n.i. 9.5 9.1 n.i.	60 83 136 150	St 1 St 1 St 1 St 1 yes		>100 100/300	690 440 750	480	melts 330 melts 320	5 3
15 30			(St 2) yes yes		<1		375	melts	5
30	8.8	93	St 1 yes St 1 yes yes yes	13 12	<1 2/4	520		melts	3
30	9.2	99	yes St 1		>9 >10	520 580		melts n.g.u.450	
30	8.4	67	St 1 yes		>8	590		n.g.u.450	
30	9.1	132	St 1 yes		<10 10/100 n.ind.	560		n.g.u.570	3
30	9.2	118	St 1 yes yes	12	30/100	590		n.g.u.570	3
30	9.2	155	St 1		>10 >10	550 510		n.g.u.450 melts	
						500		n.g.u.450	
						510		n.g.u.450	
			yes		<10 <10 n.ind.				

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Stearate, calcium/ialcum (75:25)	1421								12	
Stearate, calcium/ialcum (50:50)	1422								12	
Stearate, ethyleneglycol di-	4226					100			17	
Stearate, glycerine mono-	4230					100			17	
Stearate, glycerine mono-	2797								108	
Stearate, glycerine mono-	1115		34			4			340	
			100							
Stearate, guanidine	1484	100	96	70		100	37	19	81	
						100				
Stearate, guanidine	5295	60	45	33		22	12		320	0.8
			100							0.8
						100	68	34	25	0.8
						100	68	34	25	0.8
Stearate, lead	4415	100				80		53	18	
						100				
Stearate, lead	5329			100		81	57		28	0.4
						100	67	46	22	0.4
						100	67	46	22	0.4
Stearate, lead	2715								44	
Stearate, lead	4030								63	
Stearate, lead	2631								65	0.3
									65	0.3
Stearate, lead	0642			25	6				165	
			100							
						100				
Stearate, lead	4029								200	
Stearate, lead, basic	0640							90	12	
Stearate, lead, dibasic	5200						100	94	<10	0.3
							100	94	<10	0.3
Stearate, lead, dibasic	1561			100		99	98	92	<10	
Stearate, lead, dibasic	2378			99	96		90	80	<10	
Stearate, lead, neutral	2713								9	
Stearate, lead, neutral	2379			95	90		73	58	16	
Stearate, lead, neutral	0641						76	53	18	
			100							
						100				
Stearate, lead, neutral	2380			96	84		61	49	21	
Stearate, lead, neutral	2716								120	
Stearate, lead, neutral	2381	14							830	
Stearate, lithium	0645		100							
						100				
Stearate, magnesium	0646		100							
						100				



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			yes		<10				
			yes		<10 n.ind.				
30	8.0	100	St 1		<10				
30	6.7	71	St 1		10/100 n.ind.				
			yes		9/15		300		
					15/30				
					4/8				
15			St 1						2(2)
15			(St 2)						2(5)
30	8.7	209	St 2		<10		510	melts	2(5)
					<10 n.ind.			melts	
40	6.5	116	St 1				470		
30			(St 2)				480		2(3)
					<10				
					<10 n.ind.				
			yes		9/10				
			yes		10/30				
			yes		3/5				
30	8.7	150	St 1		2/7 n.ind.		630	melts	2(5)
			(St 2)						
30	9.2	152	yes		30/300		630	melts	5
60	8.7	203	St 1						5
			St 2		<10		520		
					<10 n.ind.				
15	9.5	225	St 2						5
			yes		<1		480	melts	
			yes		<1				
			yes		<1		450	melts	
30	9.4	156	St 1				590	melts	2(3)
			(St 2)						
			yes		<1		460	melts	
			yes		4/6				
					>5		680	melts	
30			St 1						2(5)
30			(St 2)						2(2)

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Stearate, magnesium	4054								<10	
Stearate, melamine	0647	81		36	24				191	
Stearate, sodium	0648		100		92		67	45	22	
Stearate, zinc	0649		100			100				
Stearate, zinc	1423					100	94	88	<10	
Stearate, zinc	5198			100		98	90		<10	0.4
Stearate, zinc, neutral	5201					100	98	93	<10	0.4
Stearate, zinc	2390				95		86	72	13	
Stearate, zinc	2739								14	
Stearate, zinc	2712								19	
Stearic acid, iodine no. <1	4205					100				
Stearic acid, iodine no. 1	4232					100				
Stearic acid, iodine no. 20	4233					100				
Stearic acid	0650	12							1300	
Stearin/calcium	2393		100			100	89	64	16	
Stearin/lead	2391				100		95	75	15	
Stearin/lead phosphite	2392				99		95	75	17	
Stearyl alcohol	4202					100				
Stearyl phthalate	5496	94	40	12		2	1		290	
			100							
Styrene acrylate resin	5545	12	7	4		1	1		2500	0.3
		100								0.3
Succinic acid anhydride	1028		100							
Sucralfate	1600	100	90	69		100	52	40	60	
(sucrose aluminium octasulphate)			100							
Sucralfate-mannitol co-dried gel (40 % sucralfate, 60 % mannitol)	5512		100	97		100	95	61	26	2.5
										2.5
5-sulphosalicylic acid (dihydrate)	0651				22		2		97	
Tallow alcohol sulphate, sodium salt, 90 %	4208					100				
Tanning agent, based on carbamide resin	0608				69		30	14	50	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	9.2	260	yes St 2		>3	400		n.g.u.450	
30	8.8	123	St 1 St 1			670		melts	5 2
30			(St 2)						2(5)
30	9.2	286	St 2		<5		380		2(3)
30	8.0	117	St 1		<5 n.ind.				
30	9.0	276	St 2		<10		500		2(2)
			yes yes yes		>5 1/2 <1	520		melts	
50	7.6	126	St 1				190		
30	6.9	103	St 1		15/30		225		
1000	3.4	25	St 1		30/60		250		
<15	7.2	34	St 1			500		melts	1(1)
			(St 2)						
30	9.3	133	St 1		>10	620		n.g.u.450	
60	9.1	111	St 1		>3	600		n.g.u.450	
	n.i.				>3000	510		310	
	6.8	131	St 1						2(3)
30			St 1						
100			St 1						2(5) 1(5)
15			(St 2)						
	n.i.		no						1
100			St 1						2
	n.i.					760		melts	
	8.1	224	St 2		4/9		250		
	n.i.								

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Tartaric acid	3187	100	5 100	1		1			480	<0.1 <0.1 <0.1
Tenside raw material	1741	100	96	47		16 100	6		130	
Terephthalic acid dinitrile	1116	53	47 100	40		36	28		350	
Tetraacetylenediamine	4242					100				
Tetraacetylenediamine, crystalline	4211					100				
Tetrabromo-o-cresol 2,3,4,5 tetrabromo-6-methyl phenol	1956					100	88	74	<10	
2,2'-thiodiacetic acid	0652		100		48		27	18	75	
Thiourea	0653	56	100	1		100			460	
Thiourea, impure (residue salt from mother liquor)	1424					100			50	
Thiuram, pure	1806	22	20 100	13		12	6		2500	
4-toluene sulfonamide	5372	95	82 100	49		18	100 2	82	14 126	0.4 0.4 0.4
Toluene sulfonate, sodium salt, 90 %	4210		100			100				
Toluic acid, para	1117		100			100				
Trapidil, 5-methyl-7-diethyl-amino- s-triazolo-1.5a-pyrimidine	5208	99	85 100	57		33	30		97	0.2 0.2 0.2
Tri-indole	2802								70	
Triazotone amino alcohol	1425								170	
Trimellitic acid anhydride	0654		100			100				
Trimellitic acid anhydride	2394	4							1250	
Trimellitic acid anhydride/ 4,4'-diaminodiphenyl- methane (2:1)	0655		100 100			100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			St 1						2
			St 1						2
15	8.1	125	St 1						2(2)
<30	8.8	260	St 2						5
30	9.2	231	St 2		3/10		380		
	8.3	183	St 1		>30		370		
	n.i.		no						1(1)
30	6.5	72	St 1			350		410	2
250	3.5	8	St 1			440		melts	2(2)
			St 1		>10000				
30	9.0	250	St 2						3(5)
30			St 1						2(5)
	7.5	130	St 1		5000/10 <sup>5</sup>				2
15			(St 2)						3(5)
30	9.7	272	St 2						2(5)
			yes		30/100				
			yes		10/100				
30			(St 2)						2(5)
30	6.8	33	St 1		>1000	740		melts	2(5)
15			(St 2)						2(2)

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Trisodium citrate	3194	36	2 100	1		1 100			800	<0.1 <0.1 <0.1
Tyrosine (finished product)	3058	100	100	99		100	48		10	
Tyrosine (raw product)	3059	99	98	96		100 91	74		15	
Tyrosine (raw product)	3191	98	98	96		100 91	74		17	0.0 0.0
Tyrosine (finished product)	3192		100	99		99	48		30	0.2
<b>U</b> rea, polymethylene-	5337			100		98	94		<10	5.2
Urea, N,O-bis-(trimethylsilyl)-	5199			100		95	66		25	9.4
Urea, bistrimethylsilyl-	2344			100	56	95	66	8	25	9.4
Urea (H <sub>2</sub> N-CO-NH <sub>2</sub> )	1065	4	2 100			100			2900	
<b>V</b> inyl acetate copolymerisate	2933								38	
Vinyl acetate copolymerisate	2932								38	
Vinyl alcohol, copolymer	2861								44	
Viscose flocks	1118					100	94		105	
<b>W</b> ax powder	2893								13	
Wheat protein, partially hydrolysed	1426			100		97	81		90	2.1
Wheat protein, partially hydrolysed	1620			100		99	52		90	
Wheat protein, partially hydrolysed	1427		100	99		91 100	47		14	
<b>Z</b> inc cyanamide	2395				99		96	94	28	
Zinc cyanamide (85 % ZnCN <sub>2</sub> , 12 % ZnO, 2 % dicyandiamide)	1119	47	34 100			27	14		35	
									<10 600	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			St 1 (St 2) (St 2) (St 2) (St 2) (St 2)						2 2  5 5 5 5
125 30 15	9.7 10.4 10.0	119 522 413	St 1 St 3 St 3  St 1	10  9	100/1000  <10 <10 n.ind.	  520	520 390	580  n.g.u.450	2 5   1(2)
30			yes yes yes St 1		7/14 100/1000 n.ind. 30/300 30/100				4
30 <125 30	8.1	146	yes St 1 St 1 St 1		<1 <1 n.ind. 100/1000 n.ind.		480	n.g.u.600	2 2 2
	n.i. (4.8)	(53)	(St 1)			n.i.u.850		n.g.u.450	3 2

<b>Product group 1.2.3 Intermediate products, auxiliary materials</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Zinc dibenzyl dithiocarbamate	5109					100	96	88	<10	0.2
Zinc dibenzyl dithiocarbamate	1429								10 10	
Zinc dibutyl dithiocarbamate	5108					100	98	95	<10	0.3
Zinc dibutyl dithiocarbamate	1430								13 13	
Zinc diethyl dithiocarbamate	5106					100	96	92	<10	0.2
Zinc diethyl dithiocarbamate	1431								<10 <10	
Zinc pyridine thione	1120						100			
Zinc ricinoleate with oxidants	2821								32	
Zinc-bis-(N,N-dimethyl dithiocarbamate)	1428								<10 <10	
Zinc-N,N-ethylphenyl- dithiocarbamate	1432								<10 <10	
Zinc-N,N-ethylphenyl dithiocarbamate	5107					100	98	90	<10	0.3



Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			(St 2) yes	8/10	<10 <10 n.ind.				2(5)
30			(St 2) yes	8/10	<10 <10 n.ind.				2(5)
30			(St 2) yes	8/10	<10 <10 n.ind.				2(5)
200			St 1 yes yes yes		10/100 <10 10/100 n.ind.				2(5)
30			(St 2) yes	8/10	<10 <10 n.ind.				2(5)

<b>Product group 1.2.4</b> <b>Other techno-chemical products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.-No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
2-anilino-4,6-dimethyl-pyridine	2939								150	
Azo pigment	2622								150	
									<20	
									<20	
Bitumen	0656		100							
						100				
Calcium-l-lactylacetate	2957								<10	
									<10	
Cellulose ether	2942								39	
Cellulose ether	2943								42	
Cellulose ether	2941								46	
Cement powder	2408			84	70		38	16	44	
			100							
Cement powder	2409			58	47		30	18	85	
			100							
Coconut soap	4201					100				
Colouring	3201	98	89	71		51	30		61	5.2
			100							
Colouring, raspberry	3200	100	93	67		49	38		68	4.2
			100							
Colouring, woodruff	3202	100	98	60		29	17		100	3.1
						100				
Copper ammonium chromate	2411				76		26	11	49	
Detergent (powder)	2418				98		92	45	21	
Detergent (dust)	5324	99	96	90		74	49		34	0.7
						100				0.7
Detergent (dust, 25 % percarbonate)	5325	96	84	70		61	41		46	1.1
Detergent (powder)	5410	99	96	86		62	35		48	1.9
						100				1.9
Detergent (polycarbonates, tensides, bleach, zeolites)	5444	100	98	90		56	18		58	2.4
						100				2.4
Detergent, sodium carboxy methyl cellulose	5323	94	75	59		48	29		76	0.0
			100							0.0
						100				0.0
Detergent (powder)	2641								130	6.7

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			yes yes		<1 <1 n.ind. 1/3 2/4 n.ind.				
15			(St 2)						2(2)
	n.i. n.i. 7.4	117	yes yes yes St 1 St 1 St 1 St 1 St 1 St 1		10/30 100/300 n.ind. 10/100 10/30 10/30	630 650		n.g.u.450 n.g.u.450	3 2 2 2 2 2
	n.i.					n.i.u.850		230	
	n.i. n.i. n.i.							380	2 2 2 2
30			St 1						2
30			St 1						2
30			St 1 yes		100/1000				2

<b>Product group 1.2.4 Other techno-chemical products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Detergent, sodium lauryl sulphate, 85 % active substance	5322	92	58 100	29		5			200	0.8 0.8 0.8
Detergent	3317	82	53	25		100 10	3		235	3.1
Detergent	3319	82	48	20		6	1		260	2.1
Detergent, aliphatic alcohol sulphate sodium salt, 90 % active substance	0668	88	100	14					275	
Detergent	3320	71	24 100	5		1			380	14
Detergent	3318	72	23 100	8		3	1		390	12
Detergent dust/percarbonate/ FAS powder (50:25:25)	5326	89	66	52		100 42	25		100	1.3
Detergent, raw product, based on alkylaryl sulphon.	0669		100			100				
Detergent, raw product, based on olefin sulphonate	0670			60	28				105	
Dibenzopyrole	2667								150 150	
1,2 dihydro-2,2,4-trimethyl- quinoline-polymer	2608								<20 <20	
2,6 ditertiary-butyl-p-cresol	4031								195 195	
Dye, Cassel brown (raw product)	0659		100			100				
Dye, Cassel brown	0658		100			100				
Dye, red (lake dry substance)	0663		100			100				
Dye, red	2404								<10	
Dye, blue	2402				99		98	95	<10	
Dye, permanent lake red	2414				97		93	79	15	
Dye, permanent yellow	2413				99		96	75	18	
Dye, red (dye powder)	0664				100		98		19	
Dye, blue	1644	100	99	93		77 100	58		25	
Dye, khaki	2403				86		29	11	44	
Dye, blue	2976								45 45	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15			(St 2) St 1 St 1				480		5 1
30	5.0 9.0	27 267	St 1 St 2		>10°	330	480	390 melts	1 5
			St 1				n.i.u.530		1 1
			St 1 St 1				n.i.u.530		1 1
15			St 1 St 1						3 5
30	8.6	115	St 1 St 1			390		n.g.u.590	
			yes		<3				
			yes		<2 n.ind. 2/4				
			yes		2/4 n.ind. <2				
			St 1		<2 n.ind.				3
100			St 1						4
30			St 1						2
50	11.2 9.0	249 73	St 2 St 1	13		520 710		melts 360	
					>300 >300	640 640		410 410	
	9.3	169	St 1						
30			St 1 yes yes			690		450	4
					3/5 3/7 n.ind.				

<b>Product group 1.2.4 Other techno-chemical products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Dye, blue	2997								45	
Dye, red (dye powder)	0665		100		65		33	23	52	
Dye, azo, yellow	0657				100		98	95	<10	
Dye, dispersion (85 % inorganic consti- tuents, 15 % binders)	5066	100	99	98		89 100	78		<10 <10	0.8 0.8
Dye, dispersion, navy blue	2400				97		58	15	29	
Dye, dispersion, orange	2401				97		50	16	32	
Dye, dispersion, yellow	2399				93		44	20	35	
Dye, dispersion, brilliant pink	2397			91	73		25		46	
Dye, dispersion, brilliant red	2398			84	55		15		66	
Dye, monoazo	2623								<20	
Dye, phthalocyanin, blue	0660				96		86		<10	
Dye, phthalocyanin, blue	0661				96		83	70	14	
Dye, phthalocyanin, blue	0662				91		69	51	19	
Dye, theatrical paint, turquoise	5425	98	97	94		92 100	74		<10 <10	0.3 0.3
Dye, theatrical paint, loose yellow	5424	92	85 100	82		76 100	64		<10 <10	0.3 0.3
Dye, theatrical paint, Russian green	5426	98	96	92		90 100	61		15	0.6 0.6
Fertiliser, long term	1951					100	98	70	15	
Flame retardant (70 % Br, 26 % C)	2405				87		64	56	10	
Flame retardant (70 % Br, 20 % C)	2406				80		68	55	17	
Flame retardant	1433	97	95	95		90 100 100	66 75 75	45 45	24 22 22	
Fruit acid/carbonates (30:70)	2611								55	
Fuchsine base	2407				74		45	26	36	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	9.8	237	St 2		>1000	470		n.g.u.450	
60	11.0	288	St 2			480		melts	5
30			St 1						2(5)
			yes			660		400	3
			yes			530		melts	
			yes		>3000	690		320	
			yes		>3000	610		450	
			yes		>3000	620		450	
			yes		30/100	770		355	4
100	8.8	73	St 1						
	8.6	180	St 1						
	8.8	160	St 1						2
	n.i.								
	n.i.								2
	n.i.								4
			St 1						1
	n.i.					n.i.u.850		melts	
	n.i.					n.i.u.850		n.g.u.450	
60	10.2	226	St 2		<10 100/1000 n.ind. >1000		480	350	2
	8.4	115	St 1			640		melts	

<b>Product group 1.2.4 Other techno-chemical products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
<b>G</b> lucose anhydride/sodium chloride/potassium chloride/trisodium citrate dihydrate/aerosil (71:12:5:10:1)	1608	97	57 100	24		12 100	6		230	
	Guanine	2862							22	
<b>H</b> ydrocarbon, bituminous	2410		100	23	11				260	
<b>K</b> nifing filler, based on epoxy resin	1121					100	77		24	
	Knifing filler, based on polyester	1122				100	85		19	
<b>L</b> ead sulphochromate Light protective agent Light protective agent Light protective agent Light protective agent, ester of a sterically hindered amino alcohol	2396						97	92	<10	
	2412				97		92	83	<10	
	0666				100		93		<15	
	1437								25	
	1436	98	92 100	75		58 100	39 84	51 51	50 19 19	
<b>M</b> agnesium ethylate 2,2-methylene-bis-(4-methyl-6-tert-butyl-p-phenol) 4-methyl-3-thiosemicarbicide	2927								90	
	2607								90	
	2706								21 21	
<b>N</b> itrocellulose	2636								1400	
<b>P</b> aint, grinding Paint, grinding Paint, dust Paraformaldehyde Paraformaldehyde Paraformaldehyde Paraformaldehyde	5029			100		98 100	91		<10	
	1609	99	99	95		75 100	40		40	
	1970	91	89 100	68		24 100	3		100	
	2748								450	
	2747								550	
2746								560		
2749								620		



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			St 1 yes		300/1000				2
30	7.6	63	St 1			500		melts	2
100			St 1						2
200			St 1						2
	n.i. 8.9 10.0	214 310	St 2 St 3 yes		<10 <10 n.ind.	n.i.u.850 530		n.g.u.450 n.g.u.450	
30	9.2	275	St 2		<10 <10 n.ind.		320		2(5)
			yes yes yes		5/11 10/30 n.ind. 2/3 1/3 n.ind. 30/100				
					>1000				
60	8.2	162	St 1						5
30			St 1						3
15			St 1 yes		1000/3000 >1000 >1000 >1000				5

<b>Product group 1.2.4 Other techno-chemical products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Paraformaldehyde	2750								750	
1-phenyl-3-(1,2,3-thiadiazole-5-yl)-urea	2809								<10	
1-phenyl-3-(1,2,3-thiadiazole-5-yl)-urea	2810								<10	
Photo resin (for photogravure pigments)	1434	94	88 100	70		44	1		75	1.3
Photo resin (for book printing pigments)	1435	58	36 100	13		4	2	2	53 370	1.3 1.3 1.3
Pigment, aluminium- (SiO <sub>2</sub> + MnO <sub>2</sub> coated)	2910			100		27	5	3	78 32	1.3
Pigment, aluminium- (MnO <sub>2</sub> coated)	2926								55	
Polybutylene terephthalate	2719								120	
Putty, microdiode production (barium sulphate, shellac, PVC softener, colophony, 57:30:10:3)	1700	87	63 100	45		32	7		140	
<b>S</b> oap	2415				70				43	
Soap	2416								65	
Soap	2417				40		21	14	95	
Soap	0667	96		10					300	
Soap powder	1912	100	98	97		100 95 100	86		<10	
Sodium cocoyl isethionate	1438					100 100 100	98 98	63 63	15 15	
Sodium cocoyl isethionate	1633					100	97	68	15	
<b>T</b> allow soap, 80 %	4236		100							
Tetramethylpiperidine (light protection agent)	4219					100			21	
Titanium borite	2687		100			100			<10	
<b>W</b> allpaper paste (instant)	4241		100			100				
<b>Z</b> inc tetraoxychromate	2419						90	80	<10	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	8.4	150	yes yes St 1		>1000 2/5 4/13 n.ind. 1/3 4/13 n.ind. 10/100		460		5
30			St 1 yes		10/100 100/300		470		5
30	5.2	24	yes St 1 St 1		100/300 100/300				2(3)
30	n.i.	111	St 1			750		330	
30	8.6	93	St 1			580		melts	
30	n.i.		St 1			640		n.g.u.450	2(2)
30			St 1			660		melts	2(3)
15	8.2	124	St 1 St 1		10/100 100/1000 n.ind.		370	390	5
30			St 1						5
30	7.0	116	St 1		100/1000		n.i.u.400		2
15	8.9	289	St 2		1/3		330		
			St 1		>1000				1
250	7.6	45	St 1		300/1000		390	n.g.u.400	
	n.i.					n.i.u.850		n.g.u.450	

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Aluminium, produced by blowing	2421							99	<10	
Aluminium (waste material recovery)	5086	99	98	98		98	95		<10	1.2
Aluminium (waste material recovery)	1976	98	97	97		100	89		<10	1.2
Aluminium	2420				94		88	79	<10	
Aluminium	2887								<10	
Aluminium	2888								<10	
Aluminium	2818								11	
Aluminium	2423								11	
Aluminium	2424				98		70	45	12	
Aluminium	4368								12	
Aluminium	2425				99		71	41	21	
Aluminium	2889								22	
Aluminium	2426				96		52		22	
Aluminium	0672				65		47	37	23	
Aluminium (paint ground)	1127			100		91	36		28	
Aluminium, deburring	1708	95	93	82		68	41		31	
Aluminium (induction furnace area), dust deposits	1123	99	95	90		100	35		36	
Aluminium	2431		100			100			37	
Aluminium, sawdust	1681	87	82	69	51	45	23	8	40	
Aluminium	2433			72	39	100	13	7	44	
Aluminium	5231	100	88	71		27	10		70	0.3
Aluminium	1715	95	80	40		12	4		72	0.3
Aluminium	1698	95	73	40		100	22	12	85	0.3
			100			100			100	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	11.8	455	St 3			610		n.g.u.450	
60	12.1	330	St 3						2
100			(St 2)						5
60	11.2	515	St 3 yes yes yes		<1 <1 n.ind. <1 5/12 n.ind. 2/5 <1 n.ind.	560		430	
	11.2	773	St 3			580		350	
	12.5	400	St 3	6 5		650		270	
60	12.4	620	St 3 yes		>10 30/300	560		n.g.u.450	4
	12.0	373	St 3			610		360	
60	12.0	750	St 3			590		n.g.u.450	
<60	10.5	517	St 3						4
									3
30			St 1						1
60	11.5	292	St 1 St 2			560		n.g.u.450	1
									3
30			St 1						
60	11.4	319	St 3			740		n.g.u.450	1
									1
1000	6.8	97	St 1						1
									1
100			St 1						2
			St 1						

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Aluminium, sawdust	5188	99	81 100	35		9	3		170	0.1 0.1 0.1
Aluminium, sawdust, dust deposits	5121	93	66 100	35		10	4		190	0.4 0.4 0.4
Aluminium, deburring	1631	82	32 100	22		10	1		260	
Aluminium	1124	55	33 100	26		19	12		465	
Aluminium, cutting dust	1126	45	31 100	15		4			550	
Aluminium	1699	25	6 100	2		1			750	
Aluminium	2434	21	5						750	
Aluminium	1125	40	33 100	27		24	18		1200	
Aluminium, arc sprayed	2427				86		51	22	33	
Aluminium, arc sprayed	2430				70		42	16	40	
Aluminium, coated with spindle oil	2428				99		45		34	
Aluminium, desensitised	2429				89		40	28	39	
Aluminium, flame sprayed	2432			92	50		22		70	
Aluminium, grinding	1206		100	98		87 100	74		18	
Aluminium, grinding	1208	100	97	84		58 100	29		55	
Aluminium, grinding	1209	100	98	82		56 100	27		60	
Aluminium, grinding	1210	93	88 100	72		35 100	10		79	
Aluminium, grinding	2634								81	
Aluminium, grinding	5318	98	87 100	69		33 100	10		90	0.2 0.2 0.2
Aluminium, grinding	5016	97	89 100	64		15 100	2		100	

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
200			St 1						1
200			St 1						1
100			St 1						2
30			St 1						2
30			St 1						2
	n.i.		St 1						2
100			(St 2)						1
	11.4	73	St 1				n.i.u.850	n.g.u.450	
	11.6	52	St 1				n.i.u.850	n.g.u.450	
60	9.0	67	St 1				840	n.g.u.450	1
30	12.5	400	St 3				610	230	
250	10.3	71	St 1				n.i.u.850	n.g.u.450	
30	5.7	214	St 2						4
100			St 1						2
100			St 1						2
100			St 1						1
100			St 1		>1000				1
100			St 1						1
100			St 1						1

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Aluminium, grinding	1211	86	72 100	21		1			200	
Aluminium, grinding and deburring	5573	77	64 100	55		46	30		100	1.2
Aluminium, grinding and polishing	1225	98	94 100	83		77	44	58	16 35	1.2
Aluminium, grinding, grinding paste additive	0786		100			100				
Aluminium, plasma cutting	1200		100	99		96	81		12	
Aluminium, plasma cutting	1201		100	98		91	76		12	
Aluminium, plasma cutting	1732	84	71 100	40		23	10		160	
Aluminium, plasma cutting	1202	45	31 100	9		2			600	
Aluminium cast, cleaning	1622	73	52 100	29		14	5		240	
Aluminium, plunge-cut grinding	1207	100	99	98		85 100	28		40	
Aluminium, polishing	0781		100			100				
Aluminium, polishing	1869	88	83 100	79		59	44		40	
Aluminium, polishing	1688	98	96	89		58	18		55	
Aluminium, polishing	2560		100	44	26				150	
Aluminium, polishing, dust deposits	1876	89	76 100	20					180	
Aluminium, polishing, dust deposits	1204	74	55 100	10		2			230	
Aluminium, polishing	1480	75	48 100	17		5			270	
Aluminium, polishing	2561	61		34	25	100			290	



Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			St 1						3
60	10.2	215	St 2						3
60	8.8	149	St 1						2
30			(St 2)						2
	n.i.								1
	n.i.								1
100			St 1						1
									1
100			St 1						2
30	7.3	91	St 1						4
30			St 1						5
30			St 1						5
250	6.1	28	St 1						2
	5.0	18	St 1			440		320	5
									3
200			St 1						3
									2
200			St 1						2
									3
30			St 1						3
	3.8	9	St 1			560		310	5

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Aluminium, polishing, dust deposits	1687	68	46 100	23		10	4		300	
Aluminium, polishing, dust deposits	1793	52	41 100	32		100 19	5		460	
Aluminium, polishing	1203		17 100			100 5			1000	
Aluminium dross and pellets	1136		100	97		100 91	72		16	
Aluminium dross, dust deposits	1135	100	96	87		75	62		20	
Aluminium dross	2454	99		43	28				140	
Aluminium dross	2455	81		42	30				180	
Aluminium dross	2456		100						240	
Aluminium grit (foundry grit)	1439					100	76	45	22	
Aluminium grit	2437				100		96		23	
Aluminium grit	2979								24	
Aluminium grit	2647								32	
Aluminium grit	2756								39	
Aluminium grit	2438				99		16	2	41	
Aluminium grit	2757								42	
Aluminium grit	2759								46	
Aluminium grit (foundry grit)	2439			81	62		35	20	48	
Aluminium grit	4009								52	
Aluminium grit	2758								61	
Aluminium grit	0683				51		23		70	
Aluminium grit	4035								85	
Aluminium grit	5003		100	75		21	4		100	
Aluminium grit (foil grit)	1477		100	59		100 19	3		105	
Aluminium grit (spray grit), 99.6 % Al	1714		100	60		100 7	1		120	
Aluminium grit	0684			35	14		3		150	
Aluminium grit	1787	100	96	25		1	1		150	
Aluminium grit	1814	100	99	27					150	
Aluminium grit	0685				21		4		170	
Aluminium grit	2440	92		26	6				170	
			100							

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			St 1						3
30			St 1						3
30	n.i.		St 1						2
	n.i.								1
	n.i.					n.i.u.850		n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	1
30	9.5	305	St 3		10/100		n.i.u.600		
30	11.0	320	St 3		10/30	850		n.g.u.450	
			yes		30/300				
			yes		10/100				
60	10.2	100	St 1		30/100	n.i.u.850		n.g.u.450	
			yes		100/300				
60	11.3	309	St 3		>1000	800		n.g.u.450	
			yes		100/300				
	8.9	104	St 1		>1000				
	n.i.		St 1						1
			St 1						1
	n.i.		St 1						1
	n.i.								1
	n.i.								1
	n.i.					n.i.u.850		n.g.u.450	1

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Aluminium grit	2441	99		26	9				190	
Aluminium grit	2442	95		13					190	
Aluminium grit	2980								220	
Aluminium grit	2443	99		4					230	
Aluminium grit	2444	99		12	5				270	
Aluminium grit, 97 % Al	1134		36 100			4 100			330	
Aluminium grit	2445	39							550	
Aluminium grit (foil grit)	1982	46	24 100	7		1			580	
Aluminium grit	2446	24							1005	
Aluminium paste (80 %)	1138		100							
Aluminium paste (90 %)	1137		100							
Aluminium pellets	1139		47 100				11 100		270	
Aluminium powder	2944								<10	
Aluminium powder	2842								<10	
Aluminium powder	1440			100 100		98 98	87 87		11 11	
Aluminium powder	1441			100 100		97 97	87 87		11 11	
Aluminium powder	1442		100	98		89 100	75 89	67 67	14 12 12	
Aluminium powder	1443		100	97		87 100 100	71 91 91	68 68	15 13 13	
Aluminium powder	2912								19 19	
Aluminium powder	2649								<20	
Aluminium powder	2650								<20	
Aluminium powder	2654								<20	
Aluminium powder	2913								<20	
Aluminium powder	2915								<20	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100	n.i.		St 1		>1000	n.i.u.850		n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	
30	n.i.		(St 2)			n.i.u.850		n.g.u.450	1
	n.i.					n.i.u.850		n.g.u.450	4
30			(St 2)						4
30			(St 2)						4
60	11.8	577	yes yes yes St 3		5/12 4/13 10/100 n.ind. <10		n.i.u.600	480	4
30			yes (St 3)		<10 n.ind. <10		n.i.u.600		4
30	12.0	475	St 3		<10 <10 n.ind.		n.i.u.600	n.g.u.600	4
30			(St 3)		<10 <10 n.ind.		n.i.u.600		4
			yes		<1				
			yes		<1 n.ind.				
			yes		3/5				
			yes		3/7 n.ind.				
			yes		4/9				
			yes		2/7 n.ind.				
			yes		10/30				
			yes		<1				
			yes		<1 n.ind.				
			yes		<1				
			yes		<1 n.ind.				

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Aluminium powder	2916								<20	
Aluminium powder	2917								<20	
Aluminium powder	2918								<20	
Aluminium powder	2920								<20	
Aluminium powder	2653								<20	
Aluminium powder	2435				99		64	47	20	
Aluminium powder	2651								22	
Aluminium powder	2652								22	
Aluminium powder	2919								24	
Aluminium powder	0673				82		60		24	
Aluminium powder	2839		100						27	
Aluminium powder	0674				94		60	17	28	
Aluminium powder	0675		100						29	
Aluminium powder	2914				93		60	33	29	
Aluminium powder	0676				95		50		29	
Aluminium powder	2911								32	
Aluminium powder	2845								35	
Aluminium powder	1666	95	92	82		60	33		43	
Aluminium powder	0677		100			100			43	
Aluminium powder	2840				67		29	16	49	
Aluminium powder	2844								52	
Aluminium powder	2841								57	
Aluminium powder	2843								64	
Aluminium powder	2846								65	
Aluminium powder	0678			100	60				65	
Aluminium powder	0679			100	50				67	
Aluminium powder	1932		100	86		100	14		67	
Aluminium powder, atomised	2436					100			71	
Aluminium powder, alloy	2808								88	
									90	
									29	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			yes		<1				
			yes		<1 n.ind.				
			yes		<1				
			yes		<1 n.ind.				
			yes		<1				
			yes		<1 n.ind.				
30	11.5	1100	St 3		10/30	500		n.g.u.450	
			yes		8/14				
			yes		10/100 n.ind.				
			yes		10/30				
	13.0	600	St 3		10/100	520		410	4
			yes		10/100				
30	12.4	415	St 3			710		n.g.u.450	
30	12.4	342	St 3			680		n.g.u.440	4
30	12.9	430	St 3		5/12	610		n.g.u.450	2
			yes		10/100				
			yes		<1				
					<1 n.ind.				
30	9.2	100	St 1				520	360	2
125	9.0	121	St 1			820		n.g.u.450	
			yes		30/100				
			yes		100/300				
			yes		300/1000				
			yes		300/1000				
			yes		300/1000				
	10.0	29	St 1						
250	10.0	37	St 1			n.i.u.850		n.g.u.450	1
			St 1						
200			St 1						1
500	8.4	46	St 1			850		n.g.u.450	
			yes		10/100				

Product group 2.1 Metals, alloys		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Aluminium powder, desensitised	5129					100	84	25	25	0.2
Aluminium powder, passivated	0680				97		71		26	
Aluminium powder, passivated	1132			100		80 100	45		37	
Aluminium powder, resin coated	2965								60	
Aluminium powder mixture with 11 % benzoyl peroxide	1491	100	98	90		80 100	61		22	
Aluminium powder mixture with 11 % benzoyl peroxide and 11 % silicon carbide	1490	100	99	95		83 100	56		28	
Aluminium powder/ polyglycol (9:1)	0681	75	100	56	3				122	
Aluminium powder/ polyglycol (8:2)	0682	66	100	2		100			195	
Aluminium powder/ potato starch	1133		100	90		100 70 100	42		41	
Aluminium shavings, drilling	1992	83	70 100	51		20 100	5		124	
Aluminium shavings	2447	80		35	20				190	
Aluminium shavings	2448	79		29	17				240	
Aluminium shavings	2449	78		27	15				280	
Aluminium shavings	2450	66							420	
Aluminium shavings	2451	62	100						440	
Aluminium shavings	2452	13							800	
Aluminium shavings, from circular saw	1707	31	14 100	7		5 100	1		890	
Aluminium shavings	5542	14 100	3	2					980	0.2
Aluminium shavings, grit	2453	16	100						1000	0.2
Aluminium shavings, wetted with lubricant	1647	97	53 100	6					240	
Aluminium alloy, grinding and cutting	1223	45	35 100	29		18	11		600	
Aluminium-iron alloy (50:50)	0686				93		68	48	21	
Aluminium-iron alloy (50:50)	2457				99		66	44	23	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			(St 3)						2
	5.4	16	St 1						1
30			St 1 yes		100/300				3
100			(St 2)						3
100			(St 2)						
15	12.1	83	St 1			530		280	5
15	8.4	77	(St 2) St 1			560		290	5
			(St 2)						2
100			(St 2)						1
30			St 1		>1000	620		n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	1
	n.i.					n.i.u.850		n.g.u.450	2
200			St 1						2
2000			St 1						2
	n.i.					n.i.u.850		n.g.u.450	1
			St 1						2
	n.i.								1
250	9.4	230	St 2			760		n.g.u.450	
	10.6	193	St 1			820		n.g.u.450	

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Aluminium-magnesium alloy	0687		100	47		100			130	
Aluminium-magnesium alloy	0688			42					132	
Aluminium/magnesium oxide (80:20)	2656								<20	
Aluminium/magnesium oxide (60:40)	2666								<20	
Aluminium/magnesium oxide (40:60)	2665								<20	
Aluminium-nickel alloy	0689				95		86		<10	
Aluminium-nickel alloy	0690				81		61	51	20	
Aluminium-nickel alloy (50:50)	0691				37		18		90	
Aluminium-nickel alloy (50:50)	0692			93	16				105	
Aluminium-silicon-iron alloy (40:45:15)	1701			100		78	50		32	
Aluminium/brass/cast iron, grinding	5150	98	94 100	59		100 42	27		80	0.2 0.2 0.2
Aluminium/epoxy resin (4:1)	0693		100			100				
Aluminium/glass	2458				94		70	45	22	
Aluminium/graphite (38:54)	2459				50		20	10	71	
Aluminium/plastics (waste material processing)	1140	100	99	98		95	87		2	
Aluminium/plastics (waste material processing)	1141	98	96	91		84 100	62		16	
Aluminium/plastics (shavings)	1656	40	15 100	5		3 100	2		570	
Aluminium, MV: 52µm/ sodium, MV: 195µm (2:1)	0694		100							
Aluminium, MV: 52µm/sodi- um nitrate, MV: 195µm/ resin, MV: 33µm (1:1:1)	0695		100							
Aluminium/steel, grinding	5135	99	96	89 100		57 100	25		55	0.2 0.2 0.2

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	10.4	52	St 1			n.i.u.850		n.g.u.450	2
	n.i.		St 1			n.i.u.800		n.g.u.390	
			yes		8/14				
			yes		10/100 n.ind.				
			yes		100/300				
			yes		30/100				
	11.4	300	St 2						1
	9.0	180	St 1						
	n.i.					n.i.u.850		n.g.u.450	
	n.i.								
100			St 1						1
			St 1						1
30			(St 2)						2
250	n.i.					n.i.u.850		n.g.u.450	1
	9.4	85	St 1			850		n.g.u.450	
	11.5	264	St 2						5
									5
<15	10.4	246	St 2						2
100			St 1						2
125	8.7	90	St 1						
125	12.4	248	St 2						2
									2
200			St 1						1

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Antimony ore (91 % Sb <sub>2</sub> S <sub>3</sub> , 8 % SiO <sub>2</sub> , 1% Pb, As, Fe sulphides)	1142		89 100			62 100			39	
Antimony ore (42 % Sb <sub>2</sub> S <sub>3</sub> , 31 % SiO <sub>2</sub> , 10 % PbS, Fe, As sulphides and As silicates)	1143		40 100			22 100			450	
Boride mix	5415					100	96	72	15	1.2
Boride mix	5418					100	50	22	32	1.5
Boride mix	5417		100	97		81 100	42		37	1.2 1.2
Boride mix	5416		100	94		55 100	14		58	0.7 0.7
Brass, polishing	0782		100			100				
Brass/chromium/nickel, polishing	0783		100			100				
Brass/copper/bronze, polishing	1589	80	53 100	35		18	9		210	
Brass/copper/bronze/steel, polishing	1590	83	68 100	53		35 100	15		120	
Brass/copper/bronze/steel, polishing, dust deposits	1736	78	65 100	51		27 100	7		124	
Brass/steel, grinding	1596	99	97	87		67 100	49		38	
Brass/steel, grinding, dust deposits	1597	92	76 100	36		11 100	3		160	
Brass/zinc, polishing	0784		100			100				
Bronze powder	2795								<10	
Bronze powder	2796								<10	
Bronze powder	2794								25	
Bronze powder	4002								27	
Bronze powder	4001								29	
Bronze powder	3000								34	
Bronze powder (gold bronze)	0696						97	60	18	
Bronze powder (gold bronze)	2644								<20	

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
200			St 1						2
			St 1						1
200			St 1						4
30			St 1						3
30			St 1						3
100			St 1						3
30			St 1						4
			St 1						4
30			St 1						4
			St 1						3
30			St 1						5
100			St 1						3
			St 1						1
30			St 1						4
			yes		>1000				
			yes		>1000				
			St 1		>1000				
			yes		>1000				
			St 1		1000/3000				
			yes		300/3000				
750	4.1	31	St 1		30/100	390		260	4

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Calcium-aluminium alloy (70:30)	1445			100		64	36		48	
						100	60	31	28	
						100	60	31	28	
Calcium-aluminium alloy (50:50)	1444			100		70	44		39	
						100	65	39	26	
						100	65	39	26	
Calcium-aluminium alloy (30:70)	2460						68	46	22	
Calcium-metal granulate	5001	63	100			2			440	
			16	6						
			100							
Calcium-metal granulate, with oxidic slags	5002	71	39	27		15	10		310	
			100							
Calcium silicide	1478			100		73	41		41	
						100				
Calcium-silicon alloy	0697				94		75	48	21	
Calcium-silicon alloy	2461			95	90		65	39	24	
Calcium-silicon alloy	2462				87		55		28	
Calcium-silicon alloy	2463	1							930	
Calcium-silicon alloy (40:50)	0698				72		37	17	42	
			100							
Calcium-silicon alloy (30 % Ca, 60 % Si, 6 % Fe)	0699		100		73		37	21	43	
						100				
Calcium-silicon alloy (30:60)	1702			100		80	56		28	
						100				
Calcium-silicon-aluminium alloy (approx. 20:50:20)	0700				97		66	42	24	
						100				
Calcium-silicon-barium alloy	2464			81	62		38	26	48	
Cobalt-aluminium alloy (80 % Co, 19 % Al)	2475				96		35	16	40	
Cobalt-aluminium-titanium alloy (62:18:20)	0716				92		61	41	25	
Cobalt-aluminium-titanium alloy (65:10:24)	2476				97		48	27	34	
Cobalt metal powder	1955					100			<10	
Cobalt metal powder	5014							100	<10	
Copper, oxidised	2477				85		80	65	16	
Copper powder	0717				99		77		25	
Copper/aluminium, grinding	5134		100	95		45	10		70	0.3
						100				0.3
Copper-aluminium-zinc alloy according to Devarda (50:45:5)	5114	99	93	78		57	44		46	0.0
						100	78	64	14	0.0
						100	78	64	14	0.0

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
15	9.7	251	St 2						4
15	9.0	309	St 3		<10		550		
					<10 n.ind.				4
30	10.3	298	St 2		<10		560		
15	9.4	384	St 3		<10 n.ind.				
				6		600		n.g.u.450	6
	11.2	420	St 3						4
	0.6	4	St 1						2
	n.i.								1
			St 1						
60	9.8	200	St 1			770		n.g.u.440	1
250	9.4	111	St 1		>100	n.i.u.850		n.g.u.450	1
						770		n.g.u.450	
125	n.i.	209	St 2			n.i.u.850		n.g.u.450	
	9.7					670		n.g.u.450	1
125	9.3	184	St 1				720	n.g.u.450	1
			St 1						1
100			St 1						
30	9.6	190	St 1			620		n.g.u.450	4
			(St 2)						
125	9.6	153	St 1			720		n.g.u.450	1
	n.i.					n.i.u.850		n.g.u.450	1
500	7.4	134	St 1				730	n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	1
500			St 1						4
200			St 1						4
	n.i.								
	n.i.					n.i.u.850		n.g.u.450	
100			St 1						1
125	8.2	177	St 1	14	<10				1
					10/100 n.ind.			n.i.u.600	

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Copper-silicon alloy (25 % Cu, 15 % Fe)	0718				93		78		24	
Copper-silicon alloy (25 % Cu, 15 % Fe)	0719				98	100	75		26	
Ferrochromium	2467				96		82	73	<10	
Ferrochromium, Suraffiné	0707			54	22				120	
Ferromanganese, atomised (80 % Mn)	1144		100			100				
Ferromanganese (additives of Cr, Mo)	2468				99		97	90	<10	
Ferromanganese, blast furnace	0708				44		20		81	
Ferromanganese	0709	92		32					220	
Ferromolybdenum	0710				39		16		86	
Ferroniobium (67 % Nb)	1145	100	98	64		42 100	25		88	
Ferrosilicon (75 % Si), dust deposits	2470				91		76	57	17	
Ferrosilicon (47 % Si, 24 % Fe, 17 % Mg)	2469				99		77	57	17	
Ferrosilicon (73 % Si, 21 % Fe)	2471				97		70	47	21	
Ferrosilicon	4369								21	
Ferrosilicon (15 % Si, 5 % TiO <sub>2</sub> , 80 % Fe)	1497			100		98	66		21	
Ferrosilicon (48 % Si, 38 % Fe, 10 % Mg) • humidity normal • humidity <25 %!	0711				97 97		59 59	39 39	27 27	
Ferrosilicon	1146		100	90		70 100	48		35	
Ferrosilicon	2472			92	74		42	27	40	
Ferrosilicon	1147		100	75		42 100	26		74	
Ferrosilicon (45 %)	0712			70	45		21		80	
Ferrosilicon (45 %), passivated	1148	100	96	57		31	17		105	
Ferrosilicon	2473	82		28	14				210	
Ferrosilicon	2474	1							830	
Ferrosilicon-zirconium (50 % Si, 40 % Zr)	5118		100	67		37 100	23		89	0.0 0.0



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
250	10.0	134	St 1			690		305	2
250	9.8	112	St 1 St 1 St 1			740		310	2
500	6.4 n.i.	86	St 1			n.i.u.850		n.g.u.450	1
200	6.8 n.i. n.i. n.i.	84	St 1 St 1			730		n.g.u.450	2
60	9.2	109	St 1 St 1			800		n.g.u.450	
	9.4	169	St 1	7	>100	670		n.g.u.450	
125	9.2	87	St 1			n.i.u.850		n.g.u.450	
	n.i.			12					1
125	9.2 10.2 n.i.	173 248	St 1 St 2			610		n.g.u.450	4 1
125	9.6	89	n.i. St 1			n.i.u.850		n.g.u.450	3 1
125	7.0 n.i.	75	St 1						1
	n.i.				>1000	n.i.u.850 n.i.u.850		n.g.u.450 n.g.u.450	1
			St 1						

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Ferrotitanium (40 %)	0713		100			100				
Ferrotitanium	0714			57	30				110	
Ferrovandium	0715			28	14				170	
<b>Hard metal</b> (TiC, TiN, WC, VC, Mo), sawing	1149		100	95		68 100	40		43	
High grade zinc cast. alloy, grinding and polishing	1226						99			
High grade zinc cast. alloy, grinding and polishing	1227		99	97		86 100	62		26	
High grade zinc cast. alloy, grinding and polishing, from wet separator	1228	93	92 100	87		79	56		28	
High grade zinc cast. alloy, grinding	1216		99	96		76 100	51		32	
High grade zinc cast. alloy, grinding and polishing	1486	96	92 100	84		72	44		35	
High grade zinc cast. alloy, grinding and polishing	5020	87	84 100	75		66	39		44	
High grade zinc cast. alloy, plunge-cut grinder	1217		99	90		56 100	25		55	
High grade zinc cast. alloy, polishing	1205	86	60 100	35		15 100	2		190	
<b>Iron</b>	2465				98		82	67	12	
Iron powder	2466				88		50	26	32	
Iron powder	1496					100	43		35	
Iron powder	3236			100		56 100	21		58	0.0 0.0
Iron powder	0703			22	5				169	
Iron powder, carbonyl iron	0701							96	<10	
Iron powder, electrolytic	0702		100		74		53		25	
Iron slurry, from wet dust collector	0705				35	100	18		120	
Iron slurry powder	0706			31	4				150	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	n.i. n.i.		St 1						1
100			St 1						4
30	5.4	65	St 1				460	n.g.u.750	2
	1.3	23	St 1				530		1
	1.1	30	St 1				n.i.u.550		2
500	2.3	24	St 1				480		1
100			St 1						4
200			St 1						2
30			St 1				360	280	4
100			St 1				400	350	2
500	5.2	50	St 1			580		n.g.u.450	
500	5.1	41	St 1			n.i.u.520		n.g.u.450	
30			St 1						1
			St 1						3
			St 1						
125	n.i. 6.1	111	St 1		>10 <sup>6</sup>		n.i.u.540		
	6.5	65	St 1			310		300	3
			St 1			430		350	3
	n.i.		St 1						
	n.i.					600		435	

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Iron sponge	0704		100		88		74	65	12	
Iron/aluminium, grinding	5463	89	83 100	65		100 46	24		78	1.7 1.7 1.7
Iron/Magnesium/CaSi (80:10:8)	2612					100			21	
Iron/silicon carbide (2 % benzoyl peroxide)	1492		100	97		81 100	21		43	
Iron-titanium alloy/aluminum (95:5)	4430		100			100				
Iron/titanium, grinding	5119	97	82 100	39		18 100	6		155	0.2 0.2 0.2
Lead bronze	5296					100	97	93	< 10	0.5
Magnesium	2702								78	
Magnesium shavings, impure	1531	79	15 100	2		1			400	
Magnesium shavings, impure	1533	52	27 100	6		100 2	1		430	
Magnesium shavings, impure	1532	31	20 100	2		100			800	
Magnesium shavings Magnesium dross	1884 0723	1	1 100		14	100			2500 149	
Magnesium powder	0720				100		70		28	
Magnesium powder	0721	99	100	1					240	
Magnesium powder	0722	94	100			100			400	
Magnesium powder	1897	48	24 100	4		100 1			520	
Magnesium powder, 10 % white lime powder	1898	52	23 100	15		12	8		470	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100	5.7	61	St 1		>1000	470		390	3
200			St 1						2
30			St 1						2
80							370	360	
100			St 1						2
100			St 1						
30			yes		1000/3000				4
30			St 1						5
200	n.i. n.i.		St 1			610		410	5
30	17.5	508	St 1						1
500	7.0	12	St 3 St 1			760		n.g.u.450	5
	n.i.		(St 2)			n.i.u.850		n.g.u.450	4
500	3.7	10	(St 2) St 1						4
	n.i.								5

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Magnesium pre alloy (20 % Mg, 4.5 % Si, 22 % Fe, 1.3 % Al, 3 % Ca)	2479				99		70	47	21	
Magnesium/aluminium/slag (10:10:80)	2480	73	100	21	13		3		300	
Magnesium/aluminium/slag (7:15:78)	2481	72	100	24	12		5	3	300	
Magnesium-calcium-silicon alloy (30 % Mg, 18 % Ca, 42 % Si, 10 % Fe)	1890			100		72 100	44		39	
Magnesium-calcium-silicon alloy (20 % Mg, 25 % Ca, 50 % Si, 4 % Fe)	0724		100		75		38	21	42	
Magnesium-silicon alloy (58 % Mg, 38 % Si)	1446		100	80		43 100 100	24 78 78		72 22 22	
Magnesium-silicon alloy (30 % Mg, 50 % Si)	1447					100	77	47	22	
Magnesium-silicon alloy (30 % Mg, 52 % Si)	1946		100	72		40 100	25		80	
Magnesium-silicon-iron- copper alloy (30:55:8:4)	2822								20	
Magnesium/slag (20:80)	2482	75	100	25	12		5	3	280	
Manganese, electrolytic	0725				82		70	57	16	
Manganese, electrolytic	0726				70		41		33	
Manganese metal powder/ aluminium foil grit (75:25)	5164	100	99	94		89 100 100	69 92 92		12 <10 <10	0.3 0.3 0.3
Manganese metal powder/ aluminium foil grit (80:20)	5152	95	57 100	31		17	11		220	0.1 0.1 0.1
Metal dust (steel wool)	1534	100	99	97		91 100	84		<10 <10	
Metal dust (steel wool)	1535	100	99	97		96 100	86		<10 <10	
Metal dust (Ti 80)	5222	92	88 100	72		58	35		50	0.3 0.3
Metal dust (Cr 80)	5221	100	93 100	66		100 38	15		92	0.1 0.1 0.1

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	9.9	267	St 2	3	>30	560		n.g.u.450	
	n.i.					n.i.u.850		n.g.u.450	4
	n.i.					n.i.u.850		n.g.u.450	2 3
15	9.4	213	St 2						
125	10.0	217	St 2			670		n.g.u.450	1
125	9.1	225	St 2						4
30	9.6	234	St 2		10/100 100/1000 n.ind. 10/100		n.i.u.600		4
60	9.0	150	St 1				n.i.u.600		4 2
200			St 1 yes		10/30				
	n.i.					n.i.u.850		n.g.u.450	2
	6.3	157	St 1			(330)		285	
	6.6	69	St 1						4
60	7.8	223	St 2		<10 <10 n.ind.		430		
100			St 1						1 3
100			St 1						4
30	5.6	157	St 1						3
			St 1						1
	n.i.		no						

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Metal dust (Fe 80)	5220	100	86 100	34		30	10		140	0.1 0.1 0.1
Metal powder (74 % Fe, 20 % Cr)	3420		100	87		100 55	25		60	0.0 0.0 0.0
Metal powder, mechanically alloyed (74 % Fe, 20 % Cr)	3419		100	94		74 100	33		45	0.0 0.0
Metal powder, mechanically alloyed (68.3 % Ni, 17 % Cr)	3421	52 100	29	14		2	1		450	0.0 0.0 0.0
Metal powder TIC (50 % titanium, 50 % CrN, bonded)	3350	83	80 100	78		100 74	64		12	0.1 0.1 0.1
Metal powder TIC/TiN (50 % titanium, 50 % CrN)	3349			100		100 95	74		19	0.1 0.1
Metal powder WC (50 % tungsten, 50 % CrN)	3351					100	96		<10	0.0
Metallic alloy (50 % Si, 10 % Mg, Fe)	1705			100		71 100	43		40	
Metallic alloy (50 % Si, 5 % Mg, Fe)	1706			100		72 100	45		40	
Metallic alloy (62 % Si, Fe)	1704			100		70 100	39		45	
Molybdenum	2483				100		96	92	<10	
Neodymium/dysprosium/ iron/boron/aluminium	2819								24	
Neodymium/dysprosium/ iron/boron/aluminium	2820								24	
Neodymium-iron-boron alloy	4431	99	100			53		17	59	
Neodymium-iron-boron- magnetic powder alloy (33 % Nd, 66 % Fe, 1 % B)	1150	100	87 100	71		100 50	30		63	
Nickel powder	0727				50		5		71	
Nickel-aluminium alloy (catalyst key alloy)	5215			100		99	95		<10	0.2
Nickel-aluminium alloy	1448			100		99	95		<10	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			St 1						1
	5.3	52	St 1		>10 <sup>6</sup> <5·10 <sup>6</sup> n.ind.		n.i.u.550	n.g.u.500	1
	n.i.		no				n.i.u.550	n.g.u.500	1
	n.i.								1
60	7.6	174	St 1				n.i.u.550 n.i.u.540	n.g.u.500	1
125	6.9	115	St 1		>10 >10000		n.i.u.540		4 4
750	5.4	18	St 1		>5·10 <sup>6</sup>		n.i.u.540		4
100			St 1						3
200			St 1						3
200	n.i.		St 1			n.i.u.850		390	1
			yes		10/30				
			yes		7/13 7/13 n.ind.				
166	5.2	66	St 1			310	260	315	
15			St 1						4
125	n.i. 8.9	240	St 2						2
125	7.9	176	St 1		1000/10000		n.i.u.600		1

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Nickel-aluminium alloy	1834		100	98		92 100	75		17	
Nickel-aluminium alloy	1835	100	98	79		50	33		63	
Nickel-metal mix alloy	2975								38	
Nickel/aluminium (30:70)	2695								73	
Nickel/aluminium (30:70)	2696								140	
Niobium (6.1 % Al)	1151	87	44 100	24		9 100	3		300	
<b>Silicomanganese</b>	1947			100		99	93		<10	
Silicomanganese	0728			76	51		25		68	
Silicon	2486						100	99	<10	
Silicon	2485				99		98	97	<10	
Silicon (98.8 %)	2484								<10	
Silicon	5517			100		98	91	84	<10	0.4
Silicon	2801								13	
Silicon	2487				92				14	
Silicon	1152	100	99	93		87 100	66		15	
Silicon	2488				90		70	57	16	
Silicon	2489			99	97		75	48	21	
Silicon	2804								22	
Silicon	2805								27	
Silicon	5516	100	98	97		66	50	19	32	0.7
Silicon	2490				62		31	21	55	
Silicon (98.2 %)	2491			100	42				75	
Silicon (97 %)	2492		100	78	4				108	
Silicon	2493			41	25				150	
Silicon (98.5 %)	2494		100	5					170	
Silicon (99 %)	2495		100						185	
Silicon	2496								250	
Silicon (99.3 %)	2497	100	40						255	
Silicon	2498	63							440	
Silicon (10.5 % organ. additives)	1544	100	87 100	45		13	8		140	
Silicon filter sludge	1449	99	90 100	72		100 61	55		30	
Steel (tinplate), cutting and punching	1154	96	94 100	90		100 81	84 63	69	12 20	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
200	n.i.		St 1 yes		4/100 30/300 n.ind. >1000 >1000				1 1
100			St 1						2
500	6.7 n.i.	99	St 1						2
60	9.5	116	St 1		>100	n.i.u.850		n.g.u.450	1
125	10.2	126	St 1		>30	n.i.u.850		n.g.u.450	3
125	10.7	120	St 1			n.i.u.850		n.g.u.450	
200			St 1 yes		300/1000 30/300		490		2
60	10.2	104	St 1			800		n.g.u.450	
200			St 1						1
60	9.4	100	St 1			800		n.g.u.450	
125	10.8	135	St 1 yes yes		>100 100/300 300/1000	n.i.u.850		n.g.u.450 n.g.u.450	1
200			St 1				470		2
125	10.0 n.i. n.i. n.i. n.i. n.i. n.i. n.i. n.i.	168	St 1			n.i.u.850 n.i.u.850 n.i.u.850 n.i.u.850 n.i.u.850 n.i.u.850 n.i.u.850 n.i.u.850		n.g.u.450 n.g.u.450 n.g.u.450 n.g.u.450 n.g.u.450 n.g.u.450 n.g.u.450 n.g.u.450	
100			St 1						2
125	9.8	155	St 1		100/1000		n.i.u.600	350	2
200			St 1						4

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Steel (100 Cr <sub>6</sub> ), impact tumbling	1153	100	96	81		42	31		73	
Steel, grinding	5319	99	92 100	60		100 24	6		105	0.2 0.2 0.2
Steel (tinplate), cutting and punching	1155	56	17 100	11		100 7	4		520	
Steel/aluminium, polishing	0785		100			100				
Steel/aluminium/zinc, grinding	5131	99	98	96		100 75	39		42	0.2 0.2
Steel/aluminium/zinc, grinding	5136	98	98	96		100 71	34		45	0.1 0.1
Steel/aluminium/zinc, grinding	5132	96	95 100	89		100 69	36		45	0.2 0.2 0.2
Steel/brass/bronze, grinding	1220		97	89		100 67	5		51	
Steel/titanium/aluminium, grinding	1557	100	99	91		71 100	52		30	
Steel/titanium/aluminium, grinding	1555		100	90		100 70	50		32	0.2 0.2
Steel/titanium/aluminium, grinding	1556		100	94		100 71	50		32	0.1 0.1
Steel/zinc, grinding	5137		100	98		100 86	41		38	0.1 0.1
Steel/zinc/copper, grinding	5130		100	99		100 83	48		35	0.2 0.2
Tantalum-niobium alloy	2499				97		90	80	<10	
Titanium	0729		100			100				
Titanium, grinding	2567				97		90	62	17	
Titanium	2500				98		55	24	30	
Titanium, wet grinding	1221	89	64 100	37		100 18	4		170	
Titanium, dry grinding	1222	94	66 100	21		100 10	5		245	
Titanium, pre-oxidised	2501				77		46	26	35	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			St 1						2
100			St 1						1
100			St 1						3
100			St 1						4
200			St 1						1
500			St 1						1
200	n.i.		St 1						1
	n.i.		no						1
	n.i.		no						1
	n.i.		no						1
200			St 1						1
200			St 1						1
	6.6	37	St 1			700		450	5
	n.i.		St 1			n.i.u.850		n.g.u.450	1
						450		n.g.u.450	2
30			(St 2)						2
			St 1						2
						380		400	

<b>Product group 2.1 Metals, alloys</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Titanium-calcium-silicon alloy (20 % Ca, 48 % Si, 19 % Ti, 12 % Fe)	1703			100		77 100	47		36	
Titanium/titanium dioxide, dust deposits	1156	61	40 100	28		12 100	6		310	
Titanium sponge	0730		100			100				
Zinc	0733							99	<10	
Zinc	0734				97		91	72	10	
Zinc, from crude galvanisation	0731				91		72	53	19	
Zinc	2625					100			<20	
Zinc, from crude galvanisation	0732				93		70		21	
Zinc	2800								24	
Zinc, grinding and polishing	5197	93	90 100	86		74	58		24	2.9
Zinc	4432	100				100 91 100		29	25	1.5 1.5 1.3 1.3
Zinc	2503				75		46	20	36	
Zinc, produced by blowing	0735		100	47	18				128	
Zinc	2508	92	100	42	28		11		160	
Zinc	2509								245	
Zinc oxide	5423	100	97 100	88		78	76		10	2.6 0.6 0.6
Zinc, flame spraying	5390		100	98		100 95 100	77		15	0.5 0.5
Zinc, flame spraying, dust deposits	5389	100	98	92		71 100	42		40	0.1 0.1
Zinc, flame spraying	2504			94	69		25		54	
Zinc, flame spraying	2506				52		16	7	68	
Zinc, flame spraying	2507			81	43		9		76	
Zinc, arc spraying	2502				88		51	30	30	
Zinc, arc spraying	2505			83	56		19	5	62	
Zinc pressure die casting (Zamak), grinding	5378	94	81 100	30		19	8		170	0.2 0.2 0.2

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>st</sub> Value	Explo-sibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibil-ity
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			St 1						2
30			(St 3) St 1						5 4
250	6.7	125	St 1			570		440	3
125	7.3	176	St 1			800		n.g.u.450	2
	6.0	85	St 1		100/1000				2
250	6.8	93	yes St 1			790		n.g.u.450	
			yes		300/1000				
100			St 1						5
185							710		
750	6.3 n.i.	45	St 1			n.i.u.850 n.i.u.850		n.g.u.450 420	1
	0.7	2	St 1 St 1			830		n.g.u.450	1
	<1.0 n.i.					830		n.g.u.450	2
	n.i.								2
4000			St 1						2
200			St 1						2
500	6.5 5.2 n.i.	27 8	St 1 St 1			810 n.i.u.850 n.i.u.850		n.g.u.450 n.g.u.450 n.g.u.450	
250	7.1	41	St 1			770		n.g.u.450	
250	6.3	30	St 1			830		n.g.u.450	
100			St 1						2

<b>Product group 2.2 Other inorganic products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Ammonium nitrate	0737								120	
Ammonium nitrate, surface treatment with kaolin	0738								71	
Ammonium nitrate/dicyan- diamide (2:1)	1157		100			100				
Ammonium nitrate/dicyan- diamide (2:1)	2510				60		42	35	50	
Ammonium nitrate/dicyan- diamide (2:1)	2511			47	36		30		130	
<b>Boron carbide</b>	1816						100	98	<10	
Boron carbide	1817						100	99	<10	
Boron carbide	5071						100	99	<10	0.9
Boron carbide	1819						100	96	<10	
Boron carbide	1542		100	99		73	42		40	
Boron carbide from smelting operation, dust deposits	1665	97	92 100	85		70	47		34	
Boron nitride	1936	100	95 100	53		100 16	3		124	
<b>Calcium carbide</b>	2512				95		85	74	14	
Calcium carbide, dirty (30 % CaCO <sub>3</sub> )	0740				86		65	51	19	
Calcium carbide (6 % hard coal)	2658								33	
Calcium carbide (6 % polystyrene)	2659								37	
Calcium carbonate, precipitated	1158			100		95	82		15	
Carbon fibres (99 % C)	1162		100			100				
<b>Enamel powder, pyrolitic</b>	5142			100		90 100	70		17	0.3 0.3
<b>Graphite</b>	4433		100							
Graphite (pencil sharpening machine)	1450		100	99		100 97	93		<10	0.7



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100 250	n.i. n.i.	21	St 1 St 1			520		melts melts	1(1)
	530					1(1)			
	390					n.g.u.450			
	n.i.					520		n.g.u.450	1(2)
125 125 125 125	8.2 8.4 6.7 8.5	139 142 26 152	St 1 St 1 St 1 St 1		10 <sup>6</sup> /2·10 <sup>6</sup>		n.i.u.600		1 3 3 4 2
	n.i.		no						1
	n.i.		no						1
30	n.i. n.i.		St 1		>1000 >1000	n.i.u.850 840		410 n.g.u.450	1 2
	n.i.								
	n.i.		no						1
35 60	5.5	86	yes St 1		>10000		800 580	510	2

<b>Product group 2.2 Other inorganic products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Graphite (91 % C)	0742				96		84	70	11	
Graphite (85 % C)	0743				92		80	64	15	
Graphite, cutting	5253	91	88 100	80		76	60		17	0.5 0.5 0.5
Graphite	2513				88		52	32	31	
Graphite, duo	1685	80	75 100	68		50	39		63	
Graphite, electrode	2515				95		70	44	22	
Graphite, electrode (99 % C)	1908		100	96		65 100	32		45	
Graphite, expanded	2514	51							490	
Graphite, natural (94 % C)	1682					100	97	84	11	
Graphite, natural, large crystalline (99.5 % C)	1159					100	97		7	
Graphite, natural, large crystalline (99.5 % C)	1473					100				
Graphite, natural, large crystalline (90 % C)	1160			100		94 100	54		31	
Graphite coal, cutting	5541	83	66 100	54		39	30		100	1.1 1.1 1.1
Graphite coal, cutting	5540	66	55 100	41		100 18	11		200	0.5 0.5 0.5
Graphite/vinyl acetate/ ethylene copolymers/clay	1451	100	89 100	73		56 100	46		49	1.6 1.6 1.6
<b>Magnesite</b>	3061		100	89		54 100	24		60	
Molybdenum disulphide	0746				92		75	53	19	
<b>Phosphorus, red</b>	2525				100		92	59	18	
<b>Sal ammoniac</b> (ammonium chloride) and raffinade	1846	100	92 100	75		39 100	20		81	
Silicon carbide	5070						100	99	<10	0.6
Silicon carbide	1553					100			<10	

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	n.i.					n.i.u.900		n.g.u.450	
	n.i.					n.i.u.900		n.g.u.450	
	n.i.		St 1			n.i.u.850		n.g.u.450	2
	n.i.		St 1			n.i.u.850		440	2
	n.i.		no			n.i.u.850		n.g.u.450	1
	n.i.					n.i.u.850		n.g.u.450	2
<30	5.9	71	St 1				n.i.u.600	680	1
	5.9	25	St 1		$10^6/2 \cdot 10^6$				
<30	1.9	70	St 1						1
100			St 1						2
200			St 1						2
100			St 1		100/1000		440		3
30			St 1						3
	n.i.		no						1
250	5.6	37	St 1			520		320	4
	7.9	526	St 3			400		340	5
60	8.9	150	St 1						2(2)
<1250	1.5	6	St 1		$10^6/2 \cdot 10^6$		n.i.u.600		1
30	9.0	150	St 1						1

<b>Product group 2.2</b> <b>Other inorganic products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.-No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Silicon carbide (9.5 % organ. additives)	1541	100	99	81		40 100	11		75	
Silicon carbide (4 % saccharides, 4 % fatty acids, emulsifier)	1453	60	41 100	26		12 100	2		310	0.5 0.5 0.5
Silicon nitride	1937		100	98		25 100	5		89	
Silicon nitride (4.5 % organ. additives)	1543	100	99	81		41 100	13		75	
Sodium chlorite (NaClO <sub>2</sub> )	2516				83		45	22	35	
Sodium fluoride	0747				94		66		26	
Sodium nitrate	0748	98		15					195	
Sodium nitrate/D-glucitol (86:14)	4425		100 100			90 100		64	13	
Sodium nitrate/hydrocarbonic wax (95:5)	4426			100		93 100		64	12	
Soot water concentrate	2534			95	88		78	69	10	
Sulphur	2535				97		85	71	12	
Sulphur	2536				96		80	60	16	
Sulphur	0764				96		70	51	20	
Sulphur	2537				86		23		40	
Sulphur	2538				87		20		40	
Sulphur	2539			53	32		7		120	
Sulphur	1837	25	16 100	10		6 100	3		1400	
Sulphur, aerosil	0765		100			100	75	59	15	
Sulphur, wettable (80 % sulphur)	0767		100			100				
Sulphur, wettable (80 % sulphur)	0766		100		30		12	8	97	
Sulphur, wettable	1168	99	90 100	58		27 100	9		110	
Sulphur/carbon (70:30)	0769		100			100				
Sulphur/carbon (40:60)	0770		100			100				
Sulphur/inert substance (40:60)	0768				100		98		<10	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			St 1						2
30			St 1		10/100		290	280	3
			St 1						2
			St 1						2
	n.i.					n.i.u.850		285	
	n.i.								
	n.i.					n.i.u.850		melts	1(1)
490			yes			450		melts	
510						450		melts	
125	4.8	7	St 1			600		340	1
			yes		<1	240		250	
			yes		<1	280		260	
30	6.8	151	St 1			280			5
			(St 2)						
			yes		>3	330		270	
			yes		<1	350		280	
			yes		>5	370		270	
30			(St 2)						5
30	7.0	174	St 1			270			5
			(St 2)						5
15			St 1						5
30	6.7	62	St 1			280		280	5
			(St 2)						5
			yes			250	250	250	5
30			(St 2)						5
30			(St 2)						5
60	6.0	53	St 1						

<b>Product group 2.2</b> <b>Other inorganic products</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.-No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
<b>T</b> in oxalate	4011								<10	
Titanium carbide, finished product	0773		100			100				
Titanium carbide, raw product	0772		100			100				
Titanium carbonitride (80 % Ti, 10 % C, 10 % N)	1668					100	53	32	30	
Titanium carbonitride (78 % Ti, 10 % C, 10 % N)	1583		100	83		60 100	43		47	
Titanium diboride/iron spray granul. (85 % by vol. TiB <sub>2</sub> , 15 % by vol. Fe, 2.5 % by weight organic binder)	1454							100	<10	
Titanium hydride	0774		100			100				
Titanium suboxide	0775		100			100				
<b>Z</b> inc oxide	2540				72		35	20	46	
Zinc oxide	2541	81		22					210	
Zirconium diboride	1455								<10	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			St 1		>1000				4
30			(St 2)						4
15	7.1	136	St 1				n.i.u.600	400	4
									4
100			St 1						5
200			St 1		10/1000		370		
									2
100			St 1						4
100			(St 2)						
	n.i. n.i.						n.i.u.850 n.i.u.850		n.g.u.450 n.g.u.450
					>10000				

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Abrasive lining, dust from weighing station	1565	87	82 100	77		74	72		<10	
Abrasive lining, mixing shop	1563	90	86 100	81		100 73	66		<10	
Abrasive lining, mixing shop	1566	60	52 100	45		100 41	33		180	
Abrasive lining (finished mix, asbestos-free)	1564	58	45 100	27		100 9	3		300	
ABS raw material/fillers/ paint residues	1887	95	50 100	17		100 7	4		250	
ABS raw material/fillers/ paint residues	1888	95	49 100	16		100 6	5		251	
Adhesive and filling paste (40 % synthetic resin, 20 % cellulose, 14 % metal soap, 28 % quartz sand)	1769	99	97	77		100 50 100	30		63	
Adhesive premix for dry adhesive	1917	99	96	77		100 43 100	30		66	
Aluminium and iron oxide containing mixture	1839	100	95 100	69		100 51	45		61	
Aluminium and iron oxide containing mixture	1840	96	83 100	80		100 21	3		105	
Aluminium bodywork repairs, cutting, grinding	5439	93	74 100	50		100 26	8		125	0.8
Aluminium bodywork repairs, refacing	5438	90	72 100	40		100 8	4		180	0.8 0.8 0.4 0.4
Aluminium bodywork repairs, cutting, milling, sawing	5436	88	64 100	24		100 6	3		230	1.2 1.2 1.2
Aluminium bodywork repairs, cutting, welding	5437	72	53 100	30		100 15	4		240	0.3 0.3 0.3
Aluminium bodywork repairs, grinding, milling, welding	5435	88	49 100	20		100 14	5		251	0.7 0.7



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			St 1				370		3
100			St 1				530		3
100			St 1				440		3
30			St 1				410		3
30			St 1						5
30			St 1						5
30			(St 2)						5
60	9.0	163	St 1						3
			St 1						1
			St 1						1
100			St 1						2
200			St 1						2
200			St 1						2
100			St 1						2
200			St 1						2

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Aluminium bodywork repairs, rivetting, seam finishing	5433	57	35 100	22		10 100	4		350	0.5 0.5 0.5
Aluminium bodywork repairs, coarse and fine cleaning	5430	38	30 100	21		9 100	4		700	1.3 1.3 1.3
Aluminium bodywork repairs, cutting work	5434	41	32 100	18		7 100	3		700	0.6 0.6
Aluminium bodywork repairs, welding	5432	30	22 100	17		7 100	3		800	0.4 0.4 0.4
Aluminium bodywork repairs, cutting	5431	28	23 100	11		5 100	2		900	0.4 0.4 0.4
Aluminium oxide/magnesium oxide/glycerol (23%:35%:11%)	1759						100	99	<10	
Aluminium oxide/magnesium oxide/propylene glycol (23%:37%:11%)	1760							100	<10	
Aluminium processing, dust deposits	2635								66	
Aluminium/paper	3176	91	46 100	22		8 100	4		270	3.7
Aluminium/plastic (multilayer facade slab), cutting	1554	44	18 100	6		2 100	1		540	
Aluminium/polyester powder	1518	99	98	96		82 100	69		14	
Aluminium/polyester powder	1516			100		84 100	67		17	
Aluminium/polyester powder	1515			100		77 100	46		36	
Aluminium/polyester powder	1517			100		70 100	45		39	
Aluminium/polyethylene	1612	80	44 100	20		10 100	6		300	
Aluminium/polyethylene	1611	68	30 100	14		9 100	5		390	
Aluminium/polyethylene	1810	10	3 100	1					880	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
200			St 1						2
200			St 1						2
500			St 1						2
200			St 1						2
100	n.i.		St 1 no						1
	n.i.		no						1
					>1000				
			St 1						2
			(St 2)						2
			St 1						2
			St 1						2
			St 1						2
100			(St 2)						2
30			(St 2)						2
			(St 2)						5
			St 1						2
	n.i.		St 1						3

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Aluminium/polyethylene	1610	15	6 100	2		1			1500	
Aluminium/rubber/steel	1766	90	78 100	53		33	21		115	
Aluminium/rubber/steel, dust deposits	1767	59	30 100	13		9	5		440	
Aluminum oxide/poly(vinyl butyral) (75:25)	4438					100 100				
Ash (heating power station)	2542			97	92		87	82	<10	
Ash, fly, from electr. precipitator	1197			100		99	92		6	
Ash, fly (carbon, zinc oxide etc.)	1738		100	99		95 100	91		<10 <10	
Ash, fly (about 50 % carbon)	2555				84		67	55	16	
Ash, rice husk	2543	92		55	34				110	
Ash concentrate	2544				87		61	48	21	
<b>Battery manufacture, waste product (lithium salt/ lith.-silicon, lith.-aluminium/ iron sulphide/heating set)</b>	5243								<250	0.0
Bentonite, active/gas flame coal (50:50)	1181	98	92 100	81		68	43		35	
Bentonite, active/resin (50:50)	1180			100		100 88 100	51		30	
Bentonite, active, with hydrocarbon polymer/ coaldust/soda	5238	100	99 100	91		65	44		40	8.9 5.2 5.2
Bentonite/asphalt/hard coal/ organic buffer substances (15:45:35:5)	1169		90 100			55			54	
Bentonite/bitumen/coal (40:30:30)	1170		99	95		75 100	41		39	
Bentonite/coal (50:50)	1171		98	86		69 100	41		42	
Bentonite/coal and polymers (70:30)	1172		94 100			53			60	
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			St 1						2
100			St 1						2
200			St 1						2
185			yes				450	410	
	n.i.					n.i.u.850		n.g.u.450	3
125	1.9	35	St 1						1
									4
200	n.i.		St 1			n.i.u.850		n.g.u.450	
	n.i.								
60	8.6	91	St 1			n.i.u.850 580		n.g.u.450 260	
			St 1						5
30			St 1						2
30			St 1						2(2)
200			St 1						2
30			St 1						2
200			St 1						2
30			St 1						2
30			St 1						2

<b>Product group 3</b>		Particle Size Distribution							Median	Moisture
<b>Miscellaneous</b>		% by weight							Value	Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Bentonite/coal/hydro- carbon resin	2545				93		70	47	21	
Bentonite/coal/hydro- carbon resin	2546				91		65	45	22	
Bentonite/coal/swelling binder (85:12:3)	1173		100	99		90	59		28	
Bentonite/hard coal (30:70)	1456	100	99	91		69	45		37	1.5
Bentonite/hard coal/hydro- carbon compounds (80 % activated calcium bentonite)	5056	100	98	92		70	47		36	
Bentonite/hydrocarbon resin	2547				93		70	48	21	
Bentonite/hydrocarbon resin	2548				90		65	43	23	
Bentonite/natural asphalt (50:50)	1174			100		89	56		30	
Bentonite/natural asphalt/ hard coal (80:10:10)	0777		100			100				
Bentonite/natural asphalt/ hard coal (50:25:25)	1179		100	95		84	54		29	
Bentonite/natural asphalt/ hard coal (40:30:30)	1178	100	97	89		76	48		33	
Bentonite/natural asphalt/ hard coal (30:35:35)	1177	100	97	88		77	48		33	
Bentonite/natural asphalt/ hard coal (20:40:40)	1176	100	97	86		72	43		37	
Bentonite/natural asphalt/ hard coal (10:45:45)	1175	100	96	85		66	37		44	
Bentonite/petroleum resin/ hard coal (50:30:20)	0778		100			100				
Bentonite/resin/carbon (40:30:30)	2686								38	
Bentonite derivative	2549			99	85		30	11	43	
Bentonite derivative, with organic component	2550				89		45	23	35	
	2551				86		43	23	36	
	2552				86		36	17	41	
	2553				83		35	15	42	
Binder	5373	100	91	18		4	1		190	0.3
			100							0.3
				100		14	7	1	80	0.3
						100				0.3
	5374	100	89	15		3			200	0.4
			100							0.4
				100		16	5	1	90	0.4
						100				0.4

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			yes			630		n.g.u.450	
			yes			510		n.g.u.450	
500	1.2	35	St 1						2
15	7.8	111	St 1 St 1		1000/10000		570	390	2
200			St 1						2
60	8.0	101	St 1			640		n.g.u.450	
60	8.4	138	St 1			550		n.g.u.450	2(2)
30			St 1						2
			St 1						2
200			St 1						2
30			St 1						2
30			St 1						2
30			(St 2)						2
30			(St 2)						2
			St 1		>1000				2
60	7.9	123	St 1	12		470		n.g.u.450	
60	7.4	123	St 1		>1	430		n.g.u.450	3
60	7.2	140	St 1		>3	430		n.g.u.450	3
30	7.4	113	St 1		>3	450		n.g.u.450	3
30	7.7	110	St 1		>1	370		n.g.u.450	3
			yes						2
200			St 1		1000/10000		470		
			yes						2
100			St 1		1000/10000		470		

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Blasting agent, iron alloy (30 % Cr, 38 % Ni, 11 % Mn)	5289		100	43 100					130	0.1 0.1
Blasting agent, maize meal granulate, used	5018	94	86 100	71		42	21		83	
Blasting agent, maize meal granul., unused	5017	16 100				100			600	
Blasting agent, PA granulate, used	5291	6							600	2.0
Blasting agent, PA granulate, unused	5290	1							600	1.9
Blasting agent, thermosetting plastics	5292	100	33						290	6.1
Blasting agent, thermosetting plastics	5293	89	26 100	11		4	1		320	0.5 0.5 0.5
Blasting agent, walnut shells, used	1836	63	17 100	15		3	1		440	
Blasting dust, aluminium	5565	95	76 100	66		46	35		70	0.3 0.3 0.3
Blasting dust, aluminium casting (blasting agent: steel shot)	5252		100	97		96 100	92		<10	0.2 0.2
Blasting dust, aluminium casting (blasting agent: cast steel)	1244			100		97 100	78		17	
Blasting dust, aluminium die casting	1971	94	75 100	14		8	4		230	
Blasting dust, aluminium casting	1621	95	54 100	15		100 5	3		245	
Blasting dust, aluminium sand or chill cast. (blasting agent: cast steel)	1237	100	97	70		100 44 100	31		75	
Blasting dust, aluminium sand casting (blasting agent: light metal), from dust collecting contain.	1245	98	71 100	54		40 100	30		110	
Blasting dust, aluminium sand or chill casting (blasting agent: light metal and cast steel)	1238	93	65 100	35		28 100	17		180	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	n.i.		no						1
30			St 1						4
			St 1						4
			n.i.						2(3)
			n.i.						2(3)
			n.i.						2
200			St 1						2
500	6.1	27	St 1						3
200			St 1						4
60	5.3	223	St 2						4
30	10.6	485	St 3				540	480	4
30			(St 2)						2
100			St 1						1
30	5.2	100	St 1						1
30	8.4	175	St 1						1
15	7.2	133	St 1						1

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Blasting dust, aluminium and steel (bla- sting agent: chill cast shot)	5275	100	96	66		50 100	41		63	0.1 0.1
Blasting dust, aluminium and steel (blasting agent: steel shot)	1580	93	48 100	23		9 100	3		230	
Blasting dust, aluminium and steel (blasting agent: corundum)	5251	83	26 100	11 100		3	1		350	0.1 0.1 0.1
Blasting dust, aluminium, steel and rubber metal parts (blasting agent: steel shot)	5317 5316		100	96 86		73 100 34 100	59 9		25 79	0.1 0.1 0.1
Blasting dust, Al and 10 % Cu sand or chill casting (blasting agent: light metal)	1239		98	88		75 100	58		25	
Blasting dust, Al and Zn die casting (blasting agent: stainless steel shot)	5045	99	85 100	64		60 100	58		22	
Blasting dust, AlSi12Cu (blasting agent: cast stain- less steel)	5278 5277		100	98 95		95 100 9 100	87 5		<10 105	1.3 1.3 0.1 0.1
Blasting dust, ball blasting of steel (blasting agent: Steel shot)	5098	99	89 100	86		86	86		<10	0.2 0.2 0.2
Blasting dust, cast iron (blasting agent: steel shot)	1734	97	88 100	58		42 100	30		90	
Blasting dust, chrome-nickel steel (blasting agent: ceramic granulate)	1943			100		94 100	40		35	
Blasting dust, chrome-nickel steel and cast aluminium (blasting agent: ceramic granulate), from dust collector container	1974			100		93 100	52		30	
Blasting dust, GB-ALSi12 (Cu)	5041	100	99	65		50 100	46		63	
Blasting dust, GB-ALSi12 (Cu)	5042	100	99	38		24 100	19		150	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			St 1						4
			St 1						1
			St 1						1
100			St 1						2
100			St 1						1
<15	8.6	286	St 2						2
									5
100			(St 2)						4
100			St 1						1
200			St 1						4
60	5.3	174	St 1						1
	n.i.		no						1
	n.i.		no						1
	n.i.		no						1
	n.i.		no						1
	n.i.		no						1

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Blasting dust, light metal and stainless steel (blasting agent: sand)	5151	100	97	46		21 100	12		135	0.1 0.1
Blasting dust, nickel or nickel alloy sheet (blasting agent: mainly ferrous blasting shot)	1501	100	95	52		40 100	33		110	
	1502	100	66 100	45		37 100	31		140	
Blasting dust, paint and rust (blasting agent: cast iron granules)	5508	96	83 100	59		35 100	24		93	0.6 0.6 0.6
Blasting dust, paint removal of aluminium die casting and steel (blasting agent: cast steel and corundum)	1743	91	73 100	46		24 100	15		140	
Blasting dust, paint and rust removal of cast and rolled steel (blasting agent: steel shot)	1744	57	42 100	27		17 100	12		370	
Blasting dust, PUR mould components for removal of urea residues (blast. agent: walnut shells)	1468	99	94 100	77		45 100	17		72	
Blasting dust, tempering steel (blasting agent: cast steel shot)	5158	97	95 100	89		66 100	49	8 8	32 32	0.4 0.4 0.4
	5159	90	87 100	75		56 100	37		52	1.3 1.3 1.3
	5157	100	98	50		22 100	13		125	0.2 0.2
Blasting dust, spring steel	1466		100	96		78 100	61		23	
Blasting dust, spring steel	1964	67	32 100	18		14 100	11	57	380	
Blasting dust, spring steel, from blasting cabin	1965	31	15 100	12		10 100	2		700	
Blasting dust, steel	1870	100	97	92		66 100	43		40	
Blasting dust, steel and aluminium	5342		100	96		82 100	68		18	0.2

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	n.i.		no						1
			St 1						3
			St 1						3
500			St 1						2
			St 1						2
			St 1						3
30	8.1	106	St 1		<10 <10 n.ind.		450		5
200			St 1						2
	n.i.		no						1
100			St 1						1
200			St 1		10/100		340		3
200			St 1						3
500			St 1						2
			St 1						2
200			St 1						4

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Blasting dust, steel and aluminium (blasting agent: corundum)	5465	100	99	88		65	53		30	0.1
	5464	100	98	81		100 55	37		50	0.1 0.2
Blasting dust, steel and aluminium (blasting agent: steel shot)	5515		100	76		51 100	31		62	0.1 0.1
Blasting dust, steel and aluminium	5341	95	82 100	44		17	7		140	0.1 0.1
						100				
Blasting dust, steel and aluminium	5454	59	42 100	31		24	17		350	0.1 0.1
						100				
Blasting dust, titanium (blasting agent: granulated walnut shells)	0796		100			100				0.1
Blasting dust, vanadium/aluminium alloy (blasting agent: light metal)	1232		100	97		92	77		11	
						100				
Blasting dust, zinc (blasting agent: cast steel)	0797		100			100				
Blasting dust, zinc coated steel (blasting agent: sand)	5601	100	97	93		86	73		10	0.4 0.4
						100				
Blasting dust, zinc coated steel (blasting agent: sand)	5599	100	71 100	28		5	1		190	0.1 0.1
						100				
Blasting dust, zinc coated steel (blasting agent: sand), cabin	5600	99	56 100	11		2			240	0.1 0.1
						100				
Blasting dust, zirconium	2815			100					<10	0.1
Blasting dust, cleaning of aluminium sand casting (blast. agent: light metal), dust collector	1243		100	96		70	36		44	
Blasting dust, cleaning of Al and CuZn sand or chill casting (blasting agent: steel shot), from dust collector	1246		100	76		39 100	23		82	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	n.i.		no						1
	n.i.		no						1
500			St 1						2
500			St 1						1
200			St 1						3
30			St 1						4
30	8.2	188	St 1						2
			(St 2)						4
200			St 1						3
500			St 1						1
1000			St 1						1
	n.i.				>1000				1
200			St 1				510	410	1

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Blasting dust, cleaning of Al and CuZn sand casting (blasting agent: light metal)	1247			100		69 100	38		44	
Blasting dust, cleaning of vulcanisation moulds of aluminium (blasting agent: steel balls)	1885		100	95		94 100	92		<10	
Blasting dust, deburring of aluminium chill casting (blasting agent: grey cast iron), wet separator	1234	35	20 100	15		11 100	6		1100	
Blasting dust, deburring of aluminium die casting (blasting agent: light metal and cast steel)	1240		100	99	100	88	72		17	
Blasting dust, deburring of aluminium die casting (blasting agent: grey cast iron), wet separator	1233	86	84 100	72		67 100	55		22	
Blasting dust, deburring of aluminium die casting (blasting agent: light metal)	1241	79	57 100	29		16 100	12		250	
Blasting dust, deburring of fine zinc alloy castings (blasting agent: steel shot)	1467	79	19 100	13		11 100	9 94		450 11	
Blasting dust, descaling and surface treatment of emulsion wetted hot rolled steel (Blasting agent: steel shot)	1469	99	97	90		81 100	70		11 <10	
	1470					100	88	73	13	
	1471	99	96	91		84 100	70	61	18 14	
	1472	98	97	91		80 100	65	64	19 15	
Blasting dust, hot blasting of spring elements	1464		100	99		85 100	69		20 16	
	1465		100	95		67 100	45	48	38 22	0.1 0.1



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	n.i.		no				n.i.u.600	n.g.u.600	1
125	6.2	146	St 1						4
200			St 1						2
15	7.6	242	St 2				370	280	4
200			St 1				500	280	2
200			St 1						1
200			St 1		<10 <10 n.ind.		310		4
200			St 1		10/1000		340	220	4
200			St 1		10/10000		340	190	4
200			St 1		10/1000		330	230	4
200			St 1		>10000		380	220	4
200			St 1		15/100		370		4
125	5.1	78	St 1		15/100		380		2

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Blasting dust, hot blasting of spring elements	1788	85	72 100	67		42 100	22		81	
	1789	88	80 100	62		30 100	16		94	
	1811 5099	66	1 100	83		51 100	37		490 60	0.1 0.1 0.1
Blasting dust, sand blasting of steel	1235	95	89 100	39		10 100	1		135	
Blasting dust, surface treatment of aluminium sand casting (blasting agent: light metal)	1236	44	31 100	18		7 100	4		500	
Blasting dust, surface treatment and debur- ring of aluminium die cast. (blasting agent: light metal)	1242	100	98	89		72 100	46		34	
Blasting dust, surface treatment and descaling of aluminium chill casting (blasting agent: light metal and cast steel)	2554				98		95	89	<10	
Brake lining (grinding)	1212	100	99	94		77 100	62		22	
Brake lining (grinding)	1183	69	60 100	37		28 100	9		170	
Brake lining (finished mixture)	1194	32	18 100	10		6 100	3		1000	
Brake lining (cutting)	5245	86	81 100	68		54 100	39		53	1.4 1.4 1.4
Brass/gun metal/zinc, bolt casting furnace unit										
Cadmium stearate/lead stea- rate/polyacrylate/PVC Calcination, dust deposits	1735		100	91		44 100	32		70	
	1893	99	97	88		56 100	25		58	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			St 1						2
200	n.i.		St 1						2
200			St 1						1 2
125	6.3	33	St 1						1
15	7.8	118	St 1						1
			St 1						2
250	6.9	71	St 1			530		310	
200			St 1						4
100			St 1						2
200			St 1						2
200			St 1						3
100			St 1						2
			St 1						2

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Calcium carbide, techn./dia- mide limestone/aluminium (76:14:10)	1187			100		98	85		12	
Calcium carbide, techn./dia- mide limestone/aluminium (54:36:10)	1188		100	99		92	80		11	
Calcium carbide, techn./dia- mide limestone/aluminium/ magnesium (64:16:10:10)	1189	97	89 100	85		81	72		6	
Calcium carbide, techn./dia- mide limestone/magnesium (76:14:10)	1190		100	98		100 91	58		28	
Calcium carbide, techn./dia- mide limestone/magnesium (72:18:10)	1191	100	99	93		87	80		8	
Calcium carbide, techn./dia- mide limestone/magnesium (64:21:15)	1192	100	98	90		81 100	72		11	
Calcium carbide, techn./dia- mide limestone/magnesium (54:36:10)	1193		100	99		93 100	76		14	
Calcium carbonate/graphite (50%:40%)	1643						100	99	<10	
Chewing gum manufacture, from dust extraction units	1653	98	98	97		96 100	87		<10	
Chewing gum manufacture, from dust extraction units	1651	98	96	94		86 100	81		<10	
Chipboards, plastics-coated, grinding and cutting	1224	53	38 100	24		16 100	6		400	
Coke drying	5210	81	72 100	51		31 100	20		120 24	0.6 0.6 0.6
Copper containing drilling dust	2680						66	45	<10	
Core, recycling material	1821	46	20 100	12		8 100	5		550	
Cupola furnace dust	2559				79		73	65	10	
Cutting dust, aluminium and various plastics	5569	96	93 100	87		79 100	67		15	2.2 1.2
Cutting dust, aluminium and various plastics	5568	94	91 100	86		74 100	63	66	12 18	1.2 4.8
						100	93	81	<10	1.7

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explo-sibility	Limit. Oxy-gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibil-ity
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
			St 1						3
250	5.1	30	St 1						2
			St 1						2
			St 1						4
125	5.8	30	St 1						4
125	4.7	59	St 1						3
			St 1						3
			St 1						3
15	7.5	119	St 1						3
			St 1						3
30			St 1						2
	n.i.		no		>1000				1
100			St 1						1
	n.i.					590		410	
60	8.4	172	St 1		10/30				4
200			St 1		300/1000				4

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Cutting dust, aluminium and various plastics	5567	99	95	82		59	38		48	1.4
			100			100			71	23
Cutting dust, aluminium and various plastics	5566	87	82	61		40	19	43	92	1.3
			100			100			52	30
Drawing compound	0805		100			100				
Smallbore rifle stand, dust deposits	1807	74	58 100	40		28	25		180	
Dye, scarlet/calcite (4 % dye)	1825	98	98	97		97	93		<10	
Dye, yellow/calcite (4 % dye)	1824					100	97	80	<10	
Electrolyte (78 % sugar)	1774	86	48 100	13		7	5		290	
Epoxy resin, glass fibre reinforced/copper/ aluminium	1762	97	89 100	80		100 60	47		38	
Feed concentrate plant, dust deposits	3172	98	96	93		82 100	57		25	9.0
Fertiliser dust	1654	94	88 100	72		40	17		75	
Fibre/resin mixture	1902	39	36 100	30		100 19	12		900	7.0
Flame spraying compound (70 % sintered magnesite, 30 % lignite flour)	1195		97			100 77			22	
Flame spraying dust	5297	92	85 100	78		66	42		40	1.4
Flame spraying dust, alumi- nium/iron/molybdenum	5537			100		100 98	89		<10	1.4 0.7
Flame spraying dust, molybdenum	1799					100	98	92	<10	
Flame spraying dust, molybdenum	1196	99	96	96		93	92		<10	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			St 1		10/30		360		3
30	8.8	162	St 1		10/30		410		3
30			St 1						2
100	n.i.		St 1						5
	n.i.		no						2
									1
30			St 1						2(2)
100			St 1						2
			St 1						2
30			St 1						2
30			St 1						5
100			St 1						2
									3
100			(St 2)						1
	n.i.								2
	n.i.								2
	n.i.								1

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Glass fibres, containing binder	2556				92		84	60	18	
Grinding agent manufacture (input materials)	1576	98	95	90		78 100	54		26	
Grinding agent manufacture (input materials)	1577	99	96	92		67 100	38		40	
Grinding dust, aluminium/ epoxy resin/amine hardener/asbestos)	5141	98	96	89		68 100	46		37	1.2 1.2
Grinding dust, aluminium/ paint (50:50)	5054	54	36 100	21		13 100	7		450	
Grinding dust, aluminium/ plastics	5229	99	91 100	71		35 100	17		86	0.8 0.8 0.8
Grinding dust, aluminium/ polyester/synthetic resin etc. (processing of goods vehicle bodies)	1926			100		97 100	88		<10	
Grinding dust, aluminium/ wood	0787		100			100				
Grinding dust, brake lining production	5186	79	64 100	55		36 100	18		110	0.7 0.7 0.7
Grinding dust, car body grinding work	5455	99	99 100	98		92 100	78		15	0.6 0.6 0.6
Grinding dust, car body parts (top coat, primer and knifing filler)	1213	99	98	97		92 100	71		20	
Grinding dust, car body parts (top coat, primer and knifing filler)	1214		100	94		80 100	57		25	
Grinding dust, cardboard	1218	70	64 100	44		25 100	10		160	
Grinding dust, clutch linings (epoxy resins, glass fibres, latex)	5414	99	95 100	91		80 100	64		15	1.8 1.8
Grinding dust, CoCr/Mo cast alloy	5156	99	96 100	86		59 100	25	66	13 57	1.8 39 0.3 0.3
Grinding dust, containing titanium	1527	99	96	88		74 100	42		36	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explo-sibility	Limit. Oxy-gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	n.i.					n.i.u.850		450	
100			St 1						2
100			St 1						2
30			(St 2)						2
100			St 1						2
100			St 1						2
60	7.3	103	St 1						4
100			(St 2)						4
200			St 1						2
30			yes						4
30	6.8	93	St 1						4
60	6.5	86	St 1						4
30			St 1						5
30			St 1		100/1000		560		4
			St 1						2
	n.i.								2

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Grinding dust, grindstone processing	5174	96	93 100	83		64 100	41		43	0.3 0.3 0.3
Grinding dust, insulation tubes (hard paper)	5047	92	78 100	54		31	17		120	
Grinding dust, melamine formaldehyde resins	5147	99	97	82		100 58	35		53	2.5
Grinding dust, painting preparation	5428					100	69	55	18	2.5
Grinding dust, painting preparation	5427		100	97		100	98	95	<10	1.1
Grinding dust, paper/melamine formaldehyde resins (70:30)	5146	99	92 100	63		24	8		110	4.1 2.4 2.4
Grinding dust, polyester/quartz	2566				98	100	42	22	34	
Grinding dust, polyurethane/priming	1975	92	89 100	84		64	36		46	
Grinding dust, putty	1579	99	98	93		100 80	54		30	
Grinding dust, quartz/plastic laminate	5023	97	92 100	80		100 57	30		57	
Grinding dust, ship parts, dust deposits	5104	34	20 100	9		100 5	3		840	17 0.9 0.9
Grinding dust, TiAl6V4 alloy	5155	81	73 100	44		100 17	10		170	40 0.1 0.1
Grinding dust, underseal, putty/aluminium (80:20)	5055	55	42 100	31		100 19	13		390	
Grinding dust, wood/iron/aluminium/plastics	0788		100			100				
Grinding dust/welding smoke	5429	98	72 100	43		100 14	4		150	1.4 1.4
<b>Heat insulation material, (66 % high dispersive silicic acid, 33 % Ilmenite, 3 % glass fibre, 1,5 % cellulose, 1,5 % titanium boride)</b>	5189			100		97	65		23	1.9

Lower Explos. Limit	Max. Explos. Overpressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	n.i.		no						1
30			[St 2]						4
30			St 1		10/100		420		2
100			yes						4
30			yes						4
30			St 1		10/100		430		2
125	7.0	134	St 1			550		n.g.u.450	
			St 1						2
100			St 1						4
30			St 1						3
			St 1						2
100			St 1						2
100			St 1						2
30			St 1						2
100			St 1						4
200			St 1						2
	n.i.		no						1

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Immersion polishing agent	0798	66	100	6	4				430	
Immersion polishing agent	0799	51	100			100			465	
Immersion polishing agent	0800	46	100			100			600	
Insulation material (paper, PVC), from shredder unit for copper cables	1919	93	90 100	81		100 60 100	33		50	
Lead phosphite mixture (52 % dibasic lead phosphite, 9 % neutral lead stearate, 15 % wax)	5203	6	4	3		2	1		>10 <sup>4</sup>	0.3
Lead phosphite mixture (67 % dibasic lead phosphite, 6 % neutral lead stearate, 11 % calcium stearate, 2 % wax)	5204	5	5	3		2	1		>10 <sup>4</sup>	0.3
Lead stearate/lead sulphate/ calcium stearate/stearic acid (3:3:1:1)	1182		98			70 100			35	
Magnesium die cast/wood/ lacquer (laminated material), cutting	5282	30	16	4		1			890	0.6
Medicament dust	5173	91	83 100	64		34	22		86	3.1 1.1 1.1
Metal/plastics recycling	1945	98	95	89		100 79 100	65		12	
Moulding sand/coal (moulding sand preparation), dust deposits	1841	74	67 100	41		25 100	12		160	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30	n.i.		St 1			640		360	4
30	n.i.		St 1			670		340	2
15	6.2	11	St 1 St 1			580		340	2
30			St 1						5
30			(St 2)						5  3  2(2)
100			St 1						5
200			St 1						3
100			St 1						2
100			St 1						2

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content	
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight	
Nitrogen fertilizer, synthetic (20 % N, 55 % CaO, 15 % C), dust deposits	0795							95	67	17	
Non-ferrous metal smelting	5160		100	98		93 100	88			<10	1.8 1.8
Non-ferrous metal smelting	5161	99	99	96		90 100	81			<10	1.8 1.8
Oil shale	2211				99		79	50	20		
Oil shale	2212				71		50	39	32		
Oven, dust deposits	3441	92 100	88 100	66		43 100 100	32		79	3.9	
Paint sludge, dried	5377	89	79 100	63		48 100	20		75	1.4 1.4 1.4	
Paint sludge, dried	5382	100	98 100	60		28 100	2		100	0.6 0.6 0.6	
Parting agent (30 % zinc stearate, 55 % si- licates, 10 % wetting agent)	0804		100			100	3		48		
Parting agent (mainly magnesium stearate)	5504	99	96	85		70 100	52		30	1.9 1.9	
Parting agent dust (containing wax)	5544	90	82 100	78		40 100	2		100	1.2 1.2 1.2	
Phenolic resin processing	2834								48 18		
2-phenyl imidazoline/cya- nuric acid/zinc stearate/ silica (52:46:1:1)	1829	96	86 100	80		62 100 100	54		26		
Polishing dust (natural latex, pumice and textile particles)	1461	77	71 100	44		10 100 100	2		155		
Polyethylene/paper/ aluminium	1939	94	91 100	86		82 100	61	3 3	40 40	15	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explo-sibility	Limit. Oxy-gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibil-ity
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
	n.i.					860		n.g.u.450	
	n.i.							300	4
	n.i.							290	4
125	5.2 n.i.	35	St 1			520 610		290 n.g.u.450	2 3
30	7.8	101	St 1		>50 >10 >500 n.ind.		390	310	5
60	7.7	104	St 1						4
30			St 1		10/100		430		5
30			St 1						2
30			St 1						2
125	7.1	69	St 1 yes		10/30 7/13		380		2(3)
60	9.1	185	St 1						5
100	3.9	16	St 1						
250	5.9	83	St 1		<10 <10 n.ind.				2
30			St 1						4

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Polystyrene/aluminium/steel, offcuts from roller blind cases (fine dust)	5048	98	94 100	87		75 100	63		17	
Polystyrene/aluminium/steel, offcuts from roller blind cases (coarse dust)	5049	38	33 100	16		11 100	5		700	
Polyurethane sandwich elements, drilling and cutting dust	1944	38	34 100	14		10 100	5		610	
Potassium peroxomonosul- phate/sodium tripolyphos- phate/sodium hydrogen sulphate/sodium carbo- nate/polyethylene glycol/ potassium benzoate/ten- side/perfume and colouring	5145					100 100	61	47	23	0.7
Powder mixture, (titanium dioxide/magnesi- um oxide), after annealing	5539		100	98		91 100	77		10	0.1 0.1
Powder mixture (titanium dioxide/magnesi- um oxide), from mixer	5538	100	99 100	95		75 100	57		24	0.2 0.2 0.2
Printed circuit board manufacture, sawdust	1823	99	98	96		91 100	80		<10	
Printed circuit board manufacture, dust deposits	1525	95	88 100	80		63 100	45		39	
Printed circuit board manufacture (epoxy resin, Cu, Al), drill shavings	1508	100	98	86		60 100	38		45	
Printed circuit board manufacture, drill shavings	1826	92	85 100	72		48 100	38		65	
Printed circuit board manufacture, drilling and cutting dust	1921	100	99	71		39 100	27		78	
Printed circuit board manufacture, drill shavings	3126	95	73	56		47 100	38		82	
Printed circuit board manufacture, drill shavings	1822	90	72 100	52		40 100	30		120	
Printed circuit board manufacture (epoxy resin, Cu, Al), drill shavings	1507	86	65	50		33 100	24		125	



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>st</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			St 1						2
100 250	3.6	10	St 1 St 1						2 5
30			St 1 St 1		>10000		440		3
	n.i.		no						1
	n.i.								2
30			St 1						2
30			St 1						3
100			St 1						2
30			St 1						2
30			St 1						2
	6.4	42	St 1		>10000		390		
100			St 1						2
100			St 1						2

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Printed circuit board manufacture, drilling and cutting dust	1848	87	76 100	49		20 100	13		130	
Printed circuit board manufacture, sawdust	1827	92	68 100	32		16 100	10		200	
Printed circuit board manufacture (epoxy resin, Cu, Al), drill shavings	1509	78	52 100	41		33 100	25		210	
PVC foam sheets, grinding and sawing	1463	93	57 100	17		4 27 100	2 10		240 88	1.4 1.2 1.2
<b>Quartz sand/aluminium/ silicon (80:11:9)</b>	2958								138	
Refuse incineration, dust deposits	1798	95	92 100	85		73 100	65		14	
Refuse incineration, fine smoke dust	1613	99	98	86		65 100	47		34	
	1614	99	97	81		63 100	45		40	
	1615	100	99	80		62 100	43		42	
	1616	100	96	78		60 100	42		43	
	1617	100	95	76		58 100	40		48	
	1618	99	95	76		56 100	39		50	
Roller oil cleaning unit, filter cake ("deoiled")	1844		100	98		93 100	78		11	1.6 1.6
Roller oil cleaning unit, filter cake ("deoiled")	1845		100	97		90 100	73		16	4.5 4.5
Roller oil cleaning unit, filter cake (containing oil)	1786	98	95	93		85 100	12		42	
Rubber mixing operation, dust from air extractor	1291					100	99	89	<10	
	1754	100	99	97		90 100	82		<10	
	1755			100		99	96		<10	
	1756			100		98	95		<10	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>st</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			St 1						2
100			St 1						3
100			St 1						2
15			yes St 1		1000/10000		n.i.u.600		2
					>1000				
	n.i.		St 1 no				n.i.u.600	n.g.u.600	3 1 1 1 1 1 1 2 2
60	6.3	51	St 1 St 1 St 1 St 1		>1000		n.i.u.600		5 4 3
30			St 1						4
30			St 1						4
100			St 1						3

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Rubber mixing operation, dust from air extractor	1757		100	99		98	92		<10	
	1753	99	99	96		87	77		11	
	1673	100	98	93		100	64		16	
Rubber parting compound, filter dust from powder mixer	1986			100		98	94		<10	
	1987	97	94	88		75	61		16	
			100			100				
Saw shavings, PMMA with PC and wood	5223	26	12	2					1050	0.7
	1485	64	100	7		2	1		410	0.7
Saw shavings, wood and metal (incl. aluminium)			100			100				
Sawdust (concrete, wood, steel)	5044	98	92	73		44	23		78	
			100			100				
Sewage sludge	1458			100		98	84	70	12	
Sewage sludge	1663		100	92		78	63		22	
						100				
Sewage sludge	1662		100	93		76	60		23	
						100				
Sewage sludge	2558			99	91		62	45	23	
Sewage sludge	2626								42	
Sewage sludge	5451	95	93	82		57	21		56	4.9
			100							3.4
Sewage sludge	1459	97	89	75		100	55	32	30	3.4
			100			51	32		60	
						100	55	25	28	
Sewage sludge	2903								80	4.5
Sewage sludge	1864	87	76	56		36	21		115	3.8
Sewage sludge	1199	93	75	50		29	14		125	
			100							
						100				
Sewage sludge	2902								250	5.6
Sewage sludge	2879								420	5.3
Sewage sludge	2890								700	5.7
Sewage sludge	5452	23	19	6		2	1		800	5.7
Sewage sludge	1863	25	14	11		7	5		2300	4.4
Sewage sludge, paper manufacture	2951									
Sewage sludge/hard coal (1:2)	1664		100	91		66	51		35	
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			St 1						4
30			St 1						3
30			St 1						2
30			St 1						3
200			St 1						2
200			St 1						5
200			St 1						3
30			St 1						4
200			St 1		100/1000		470	260	4
250	6.7	49	St 1		>10 <sup>6</sup>		410	250	4
250	7.7	67	St 1		>2 · 10 <sup>6</sup>		470	260	3
60	7.7	96	St 1		>1000	430		260	5
60	8.1	102	St 1		10/100		470	330	2
250	6.5	79	St 1		100/1000		450	260	3
750	5.9	41	yes St 1		1000/3000			450	2
			St 1		>1000		450		
			yes		300/1000				
			>1000		>1000				
	n.i. 3.1	6	St 1		>1000			260	2
	n.i.		St 1					280	3

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content	
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight	
Shoe processing, rough dust	2953								102		
	2955								125		
	2954								142		
	2952									247	
										247	
Shredder dust, electronic parts	5320	84	70	50		44	35		125	0.7	
			100								0.7
Sinter dust (10 % Fe, 50 % Cu, 25 % graphite)	0793				94		77	53	19		
Sinter dust (60 % Fe, 10 % Cu, 10 % graphite), inter- mediate processing	0794				66		37	20	44		
Sinter dust (iron)	2569				96		93	90	<10		
	2570				96		87	75	11		
	2571				82		78	57	18		
	2572	96		95	83		51	35	30		
	2573			49	30				130		
Sintered magnesite fine flour/ flock graphite/aluminium foil grit (50:35:15)	1231	100	99	90		73	52		30		
	1230	100	99	92		67	48		35		
Slide grinder, maize grit/metal abrasion	1713	99	99	98		79	47		35		
Softwood/carbon fibre/ polyethylene, grinding and cutting	1935	95	87	65		37	27		82		
			100								
Soot, stabiliser, etc., mixture	1552	61	28	13		6	5		430		
Starch derivative/ modified starch	1627	96	72	48		100	40	15	130		
			100								
Starch/milk powder/xan- thane/guar kernel meal/ seaweed/pectin/gelatine/ breadfruit kernel meal	1460	99	97	84		67	43	44	40		
						100			71	23	
Steel, gas cutting dust	1871	99	98	96		84	60		26		
						100					
Steel/aluminium/ pyrolised rubber	1717	96	90	75		60	46		38		
			100			100					

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>St</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100	n.i.		yes yes yes yes		10/30 100/300 30/300 7/14 100/300 n.ind.	790		n.g.u.590	2
750	5.7	19	St 1			520		380	
	n.i.					n.i.u.850 n.i.u.850 n.i.u.850 n.i.u.850 n.i.u.850		n.g.u.450 430 n.g.u.450 n.g.u.450 n.g.u.450	
	n.i. n.i.								1 1
100			St 1						4
60	8.8	112	St 1						5
100			St 1						5
100			St 1						2
30			St 1		10/100		390		2
	n.i.		no						1
			St 1						2

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Steel/aluminium /plastics, grinding, dust deposits	5250	98	85 100	54		27 100	10		115	0.3 0.3 0.3
Steel/aluminium /plastics, grinding, dust deposits	5249	98	81 100	37		20 100	4		140	0.4 0.4 0.4
Steel/brass/nickel silver/ aluminium, grinding and brushing	5543	92	85 100	69		52 100	45		46	1.5 1.5 1.5
Steel/light metal, blasting and grinding	5039	98	89 100	21		13 100	8		200	
Tea decaffeination	1672	83	59 100	46		39 100	33		160	
Textile dust (tyre recycling)	5351	26	19 100	11		6 100	2		1200	2.2 2.0 2.0
Textile dust, car seat production (flame retardant material)	1718	92	89 100	80		72 100	57		20	
Textile fibres, dust deposits	1595	100	98	97		91 100	76		15	
Textile fibres	1593	82	71 100	64		56 100	49		36	
Textile fibres, cleaning shop	1594	98	95 100	87		62 100	24		52	
Textile fibres	1591	97	86 100	71		57 100	30		60	
Textile fibres	1632	78	72 100	66		53 100	5		60	
Textile fibres	1592	94	82 100	57		31 100	17		115	
Textile fibres	2726								<2000	
Textile fibres, natural and man-made	0801		100			100				
(tearing plant)	0802		100			100				



Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>st</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
30			(St 2)						5
30			St 1						5
100			St 1						4
100			St 1						3
125	8.0	102	St 1						4
			St 1						5
30			St 1						3
30			St 1						4
			St 1						4
100			St 1						4
30			St 1						4
30	n.i.		St 1						4
			St 1						4
100			St 1 yes		100/300				5
15			St 1						3
100			St 1						

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
Toner	2574							100	<10	
Toner	2575							100	<10	
Toner	2576							100	<10	
Toner	2577							100	<10	
Toner	0803							98	<10	
Toner	2578				100		95	83	<10	
Toner	2579								<10	
Toner	2580				99		91	75	13	
Toner	2581				100		96	48	21	
Toner	2582				100		95	30	23	
Toner resin	2585				98		78	55	18	
Toner resin	2586				99		87	50	20	
Toner/iron powder	2583				58		37		60	
Toner/iron powder	2584				37		4		83	
Toothpaste manufacture	1652					100	94	86	<10	
<b>Urea formaldehyde resin/ hard wheat flour/wood flour/hardener and kaolin (60:30:3:7)</b>	1198		100	95		63 100	34		46	
<b>Vinyl acetate/ethylene copolymers/clay</b>	1683	100	85 100	60		39 100 100	23 66 66	35 35	99 26 26	
<b>Waste bunker, dust deposits</b>	5294	100	99 100	98		95 100	83		12	3.1 1.3 1.3
Welding dust, inert gas welding of aluminium alloys	1229		100	99		97	94		2	
Welding dust, inet gas wel- ding of structural steel	5356	100	98	96		86 100	61		26	1.1 1.1
Welding dust, plasma welding of aluminium sheet under water (sludge)	1820	62	55 100	46		39 100	34		180	
Welding electrode coating, premix (45 % cellulose flour)	0789				71		45		39	
Welding electrode coating, premix (35 % cellulose flour)	0792	84	100	2					245	
Welding electrode coating, premix (5 % cellulose flour)	0791	99		24	10				172	
Welding electrode coating, premix (1 % cellulose flour)	0790			40	14		5	3	150	

Lower Explos. Limit	Max. Explos. Over-pressure	K <sub>st</sub> Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	8.9	196	St 1		<4	520		melts	
30	8.7	137	St 1		<1	530		melts	5
	7.9	138	St 1			530		melts	(3)
60	8.9	127	St 1		<1	520		melts	
15	8.4	162	St 1			470		n.g.u.450	5
30	9.1	164	St 1			540		n.g.u.450	
30	8.5	95	St 1			540		n.g.u.450	
60	7.7	101	St 1			540		n.g.u.450	
60	8.8	134	St 1		<1	530		melts	(3)
60	8.8	145	St 1		<8	530		melts	(3)
			yes		<1	580		n.g.u.450	(5)
			yes		<1	580		n.g.u.450	(5)
60	8.2	169	St 1			570		n.g.u.450	
750	5.2	28	St 1			620		n.g.u.450	
			St 1						2
100			St 1						2
15	7.4	100	St 1		15/50 100/1000 n.ind.		430	400	3
100	n.i.		St 1						4
200			St 1						1
									4
	n.i.	206	no St 2			490		350	1
	10.4					700		n.g.u.450	4
	n.i.								2
100	n.i.		St 1			n.i.u.850		n.g.u.450	1
	n.i.					n.i.u.850		n.g.u.450	1

<b>Product group 3 Miscellaneous</b>		Particle Size Distribution % by weight							Median Value	Moisture Content
Material	Mat.- No.	<500 µm	<250 µm	<125 µm	<71 µm	<63 µm	<32 µm	<20 µm	µm	% by weight
<b>Yellow flour</b> (wood flour, ammonium sulphate, glandular fibres, 20 % fat)	0779		100		33	100	6		90	
<b>Zinc bath emissions</b>	1529	62	60 100	46		29 100	9		150	
Zinc stearate/bentonite/ kaolin (90:5:5)	0806		100			100				
Zinc stearate/bentonite/ kaolin (60:20:20)	0807		100			100				
Zinc stearate/bentonite/ kaolin (30:20:50)	0808		100			100				
Zinc stearate/bentonite/ kaolin (20:10:70)	0809		100			100				

Lower Explos. Limit	Max. Explos. Over-pressure	$K_{St}$ Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m <sup>3</sup>	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
60	8.7	74	St 1 (St 2)			530		320	3
30	n.i.		(St 2)						2
30			(St 2)						3
			St 1						5
			St 1						2
									2



# Index of materials

The material names in the table below are listed in alphabetical order and cover all product groups. If the name is a so called main entry in the tables above, where the name appears in first order, the page number is printed in **bold letters**. If the material name appears subsequently (second order) in column „Material“, e.g. as part of mixtures or alloys, the page number is printed

in standard style. Chemical substances beginning with a number, e.g. „3-amino-2-chloropyridine“, are listed below the first letter, in this case „A“.

Additionally to material names, terms concerning groups, parts or processes are listed, e.g. „acid“, „brake linings“, „grinding“, „polishing“.

<u>Material</u>	<u>Page</u>	<u>Material</u>	<u>Page</u>
<b>A</b> -acid	316	Acrylate	170, 224, <b>270</b> , 270, 306, 322
Abrasive lining	<b>396</b>	Acrylic acid	<b>270</b>
ABS	168 ff, 184, 218, <b>396</b>	Acrylic acid sodium acrylate	170
Acenaphthylene	<b>270</b>	Acrylic copolymer	306
Acetal copolymerisate	186	Acrylic fibres	170
Acetaminothymol	<b>244</b>	Acrylic resin	180, 224, 226, 228
Acetoacetic acid anilide	<b>270</b>	Acrylic rubber	198
Acetoguanamine	<b>270</b> , 294	Activated carbon	<b>142</b>
Acetone formaldehyde sulphite resin	290	Active bentonite	400
Acetyl cysteine	<b>244</b>	Active contact	144
Acetylene coke	<b>142</b>	Active substance	344
Acetylene soot	156	Additive	<b>270</b> , 286
Acetylsalicylic acid	<b>244</b>	Additive for brake linings	<b>270</b>
Acid	244, 246, 250, 254, 256, 268, 270, 272, 274, 278, 280, 288, 290, 296, 300, 302, 306, 308, 310, 312, 314, 316, 320, 324, 326, 334, 336, 346, 422, 424, 426	Adhesive and filling paste	<b>396</b>
Acid casein	282	Adhesive premix	<b>396</b>
Acidic polyester resin	226	Adipic acid	<b>270</b>
Acidose	<b>270</b>	Aerosil sulphur	392
Acrylamide	<b>270</b>	Akyd melamine resin	228
		Al silicate	286
		Albumin	138
		Alginate	<b>270</b>
		Alginic acid	<b>270</b>

Aliphatic alcohol sulphate sodium salt	344	Aluminium hydroxide hexitol	
Alkyl sulphonic acid formaldehyde		codried gel	270
condensation resin	228	Aluminium hydroxide polyethylene	
Alkylaryl sulphonate	344	glycol codried gel	270
Alkylbenzenesulfonate	270	Aluminium hydroxide sugar	
Allantoin	244	codried gel	270
Allopurinol	244	Aluminium magnesium hydroxide	
Alloy	364, 366, 370, 372, 374, 376,	carbonate sorbitol mannitol	
	378, 380, 382, 384, 386, 404,	codried gel	272
	408, 410, 412, 420, 422, 438	Aluminium magnesium hydroxide	
Almond flour	244	sulphate	272
Aloin	244	Aluminium magnesium hydroxide	
Alpha-cyclodextrine	160	xylitol codried gel	272
Aluminium	208,	Aluminium nitride	286
	352 ff, 370, 376, 378, 380,	Aluminium octoate	272
	382, 384, 396 ff, 404, 406,	Aluminium oxide	398
	408, 410, 412, 416, 418, 420,	Aluminium paste	360
	422, 426, 428, 430, 432, 436	Aluminium pellets	358, 360
Aluminium alloy	364 ff,	Aluminium pigment	350
	370, 380, 382, 410, 438	Aluminium powder	360 ff
Aluminium bodywork repairs	396 ff	Aluminium processing	398
Aluminium cast	356	Aluminium sand casting	414
Aluminium chill	412, 414	Aluminium shavings	364
Aluminium chill casting	414	Aluminium spray grit	358
Aluminium di-stearate	330	Aluminium stearate	330
Aluminium die	408, 412, 414	Aluminium zirconium tetrachlorohydrate	
Aluminium die casting	414	glycine complex	272
Aluminium dross	358	Aluminium-iron alloy	364, 366
Aluminium foil grit	358, 378, 434	Aluminium-magnesium alloy	366
Aluminium foundry grit	358	Aluminium-nickel alloy	366
Aluminium grit	358 ff, 378, 434	Aluminium-silicon-iron alloy	366
Aluminium hydroxide	272	Aluminum oxide	400
Aluminium hydroxide calcium		Amide	326
carbonate glycin codried gel	272	Amide wax	242, 272



Amine adduct	272	Animal protein	104
Amine hardener	420	Anode residues	156
Amino acetic acid	268	Anthracene	274
Amino acid mixture	272	Anthracite	142, 146, 152
3-amino-2-chloropyridine	272	Anthracite hard coal	146
Aminoguanidine sulphate	272	Anthranilic acid	274
2-amino-4-methoxy-6-methyl-s-triazine	272	Anthraquinone	274
4-amino-3-methyl-N-ethyl-N-( $\beta$ -hydroxy-ethyl)-aniline sulphate	298	Anti-adhesive agent	294
4-amino-3-methyl-N,N-diethyl aniline hydrochloride	298	Anti-ager agent	274
Aminophenazone	244	Anti-settling agent	274
Aminoplastic	170	Antimony ore	368
Aminotriazole	244	Antimony pentasulphide	274
11-aminoundecanoic acid	272	Antimony trisulphide	308
Amitriptyline oxidized hydrate	244	Antioxidant	274 ff
Ammivisnaga umbellae	244	Apple powder	54
Ammonium chloride	390	Arc sprayed aluminium	354
Ammonium iron salt of ethylene diamino tetra-acetic acid	310	Arc sprayed zinc	386
Ammonium nitrate	388	Aroma	54, 58, 98, 252, 278, 328
Ammonium salt	272	Artificial silk flock	170
Ammonium sulphate	440	Asbestos	420
Amorphous carbon	156, 326	Ascorbic acid	244
Amylase concentrate	272	Ascorbyl palmitate	278
Anhydrite	272	Ash	146, 400
Anhydrous dextrose	272	Ash concentrate	400
Anhydrous magnesium citrate	256	Asphalt	400
Aniline-dressed leather	164	Auramine base	278
2-anilino-4,6-dimethyl-pyridine	342	Azacycloheptane-2,2-diphosphonic acid	278
Animal fattening product	52	Azo dicarbonamide	278
Animal feed	52 ff	Azo dye	346
Animal feed binder	54	Azo pigment	342
Animal meal	54	<b>B</b> acterial lysate	256
		Balsam resin	174, 228
			445

Banana dry aroma	54	Bis-(2- <i>tert</i> -butylperoxyisopropyl)-	
Banana flakes	54	benzene	280
Banana powder	56	Bis-stearoyl	242
Barium alloy	370	Biscuit crumbs	56
Barium stearate	312, 330	Biscuit dough	56
Barium sulphate	218, 350	2,2-bis-(4-hydroxy-phenyl propane)	322
Bark	246, 258	Bisphenol A	280, 294
Barley	56, 78, 88	Bisphenol ketylene	280
Barley bran	56	Bisphenol polyester resin	228
Barley flakes	56	Bisphenol-A-dimethacrylate diacryl	294
Barley flour	56	1,1-bis-(3- <i>tert</i> -buty-4-hydroxy-	
Barley malt	56	6-methyl-phenyl)-butane	274
Bath powder	246	Bistrimethylsilyl-urea	338
Battery manufacture	400	Bitter lupin extract	160
Beans	54	Bitumen	342, 400
Beech	46	Blasting agent	404
Beech charcoal	144	Blasting dust	404 ff
Beer draff	56	Bleach	342
Beet seed	166	Blood meal	56 ff, 162
Bentonite	400 ff, 440	Board	50
Bentonite derivative	402	Bone meal	58
1,4-benzenedicarbonitrile	280	Boric acid	312
Benzene-1,3-dicarbonitrile	308	Boride	368, 422
Benzene propanamide	276	Boron	380
Benzoguanamine	280	Boron alloy	380
Benzoic acid	280, 280	Boron carbide	388
1,2,3-benzotriazole	280	Boron nitride	286, 388
Benzoyl peroxide	280	Brake lining	414, 420
Betaine hydrochloride	280	Brake lining production	420
Betaine monohydrate	280	Brake linings additive	270
Binder	118, 402	Bran pellets	58
Birch	46	Brass	366, 368, 384, 414, 436
Birch leaves	246	Bread remainders	58
		Breadcrumbs	58

Breadfruit kernel meal	434	Calcium glycerophosphate	282
Brewer's yeast	58	Calcium hexalactate	282
Brightener	280	Calcium l(+) ascorbate	246
Briquette	152	Calcium metal	370
Bristle	102	Calcium salt	282, 286
Bronze	368, 368, 376, 384	Calcium silicide	370
Bronze powder	368	Calcium stearate	330, 424
Bulls' testicles	160	Calcium-aluminium alloy	370
Butcher's broom extract	246	Calcium-II-acetylacetonate	342
Butter dry aroma	58	Calcium-magnesium resinate	170
Butylated reaction product of p-cresol and dicyclopentadiene	276	Calcium-silicon alloy	370
Butylation product of the conversion from p-cresol with dicyclopenta- diene	278	Calcium-silicon-aluminium alloy	370
1-(n-butylcarbamoyl)-2-(methoxycar- bonyl-amino)-benzimidazole	250	Calcium-silicon-barium alloy	370
Butylhydroxy anisole	280	Calciumcarbonate	302
<b>C</b> admium laurate	308	Camomile powder	246
Cadmium stearate	312, 330, 414	Cappuccino powder	58
Caffeine	246	Caprinoguanamine	282
Calamus roots	160	Captan	250
Calcination	414	Car body grinding work	420
Calcite	418	Car body parts	420
Calcium	256, 272, 334, 370, 378, 386	Car seat production	436
Calcium acetate	282	Caramel	58
Calcium alloy	378	Carbamazepine	246
Calcium bentonite	402	Carbamide resin	334
Calcium boride	282	Carbide	388, 390, 392, 394, 416
Calcium carbide	292, 294, 388, 416	Carbohydrates	96, 300
Calcium carbonate	306, 388, 416	Carbon	142 ff, 146, 156, 242, 326, 348, 388, 392, 400, 402
Calcium citrate	268	Carbon fibre	388, 434
Calcium fluoride	308, 310	Carbon fibre epoxy resin	228
		Carbon foam	142 ff
		Carbonates	346, 388, 416, 428
		Carbonitride	394
		Carbonyl iron	374

Carboxymethyl cellulose	284	Cetostearyl sulphate	288
Carboxymethyl cysteine	282	Cetyl alcohol	288
Carboxymethyl dextran	282	Cetyl trimethyl ammonium bromide	288
Carboxymethyl starch	58	Charcoal	144
Cardboard	420	Chewing gum manufacture	416
Carica Papaya	300	Chicken fattening feed	60
Carnauba wax	242	Chickenfeed	60
Carrot powder	58	Chicory dust	60
Casein	82, 282	Chipboards	48, 416
Caseinate	282 ff	Chloramphenicol palmitate	246
Cast aluminium	406	Chlorhexacarboxylic acid	288
Cast iron	366, 406	Chlorhexacarboxylic acid anhydride	288
Cast steel	408	Chloride	348, 390
Castor oil	160, 284	Chlorite	392
Cat food	58 ff	4-[4-Chlor-N-(4-methoxyphenyl) benzamido] butyric acid	246
Catalyst key alloy	380	Chloroacetamide	288
Cattle feed	60	Chloroethene homopolymer	288
Cavity powder	284	Chlorophenoxamine hydrochloride	246
Celery powder	60	6-chloro-3-phenyl pyridazone-4-ol	288
Celery roots	60	3-(4-chlorophenyl)-1-phenyl-1H-pyra- zole-4-acetic acid calcium salt	256
Cells	270	Choco-drink-food	60
Cellulose	34, 40, 50, 170 ff, 176, 180, 236, 284 ff, 306, 316, 342, 396, 422, 438	Choline chloride powder	290
Cellulose acetate	172	Chromate	218, 342, 348, 350
Cellulose acetate propionate	172	Chrome leather	164
Cellulose additive	286	Chrome-nickel steel	406
Cellulose ether	286, 342	Chromium	372, 368
Cellulose fibres	286	CIN	380
Cellulose flour	438	Cinchonabark	246
Cellulose nitrate	286	Cinnamic acid	290
Cellulose-2,5-acetate	170 ff	Cinnamon	60
Cement powder	342	Citraconic monohydrate	290
Ceramic powder	288	Citric acid	60, 246, 290

Citrus pellets	60	Coke	142, 144 ff, 148, 152, 154, 156
Clanobutine	246	Coke coal	146
Clay	390, 438	Coke drying	416
Clemizol hexachlorophenate	246	Coke slack	146
Clemizol penicillin	246	Collagen	66
Clutch linings	420	Colophony	172 ff
Coal	144, 158, 248, 292, 294, 390, 400, 402, 424, 432	Coloured clay	160
Coating powder	172	Colouring	342
Cobalt metal	370	Concentrated feed	66
Cobalt-aluminium alloy	370	Concrete	432
Cobalt-aluminium-titanium alloy	370	Condensation product	290
Cocoa	60 ff, 160	Contraceptive	248
Cocoa husks	160	Convallaria majalis	248, 256
Cocoa powder	62	Copolyester	192
Cocoa shells	62	Copolymers	174, 184, 186, 198, 200, 210, 218, 220, 224, 242, 298, 300, 306, 314, 338, 390, 438
Cocoa-ready drink	62	Copper	368, 370, 378, 384, 416, 418
Coconut	62	Copper ammonium chromate	342
Coconut aminodiacetate	290	Copper cables shredder	424
Coconut expeller	62	Copper-aluminium-zinc alloy	370
Coconut fibres	34	Coppersilicon alloy	372
Coconut oil acid monoethanolamide	290	Copra expeller	66
Coconut soap	342	Copra pellets	66
Coconut vanilla milk aroma	278	Core	416
CoCrMo cast alloy	420	Coriander	66
Codein resinate	246	Cork	34
Codried gel	270, 272, 334	Corn starch	248
Coffee	64	Cosmetic powder	262
Coffee coal	248	Cotton	34, 176
Coffee creamer	66	Cotton flakes	36
Coffee extract	64		
Coffee powder residue	64		
Coffee skin	160		
Coffee, waste	66		

Cotton flock	36	Dextrin	160, 164, 246, 252
Cotton seed expeller	160	Dextromethorphan resinate	248
Cream	110	Dextrose	68, 272
Cream cake mix	66	Di-ethoxylised bisphenol-A-di-metha-	
Crispbread	66 ff	crylate diacryl	294
Crystal sugar	124	Di-ethyleneglycol stearate	332
CTAB	288	Di-sodium adipate	326
Cumarone resin	228	Diacetyl tartaric acid	300
Cupola furnace dust	416	Diamide limestone	416
Curcuma roots	248	4,4'-diaminodiphenyl methane	294, 336
Curd powder	68	2,4-diamino-6-methyl-1,3,5-triazine	270
Cutflack	188	2,4-diamino-6-nonyl-1,3,5-triazine	282
CuZn	410, 412	3,5-diamino-1,2,4-triazole	294
Cyanoacrylic acid methyl ester	290	Diazo naphtholsulphonic acid	316
Cyanuric acid	290, 426	Diazo naphtholsulphonic acid chloride	316
Cyclamate	292	Diazonaphthol sulphonic acid	234
Cyclodextrin	162, 164	Diazonium salt	294
Cyproterone acetate	248	Dibasic lead phosphite	424
Cyproterone acetate corn starch	248	Dibenzopyrrole	344
Cysteine hydrate	248	Dibenzoyl peroxide	294
		Diclofenac sodium	250
<b>D</b> (+)-lactose	80	2,6-dichlorobenzonitrile	294
D(-)-mannitol	310	Dicumyl peroxide	294
D-glucitol	392	Dicyandiamide	294, 388
D-L-phenylglycine	320	Dicyandiamide-formaldehyde polymer	294
D-mannite	246	Dicyanoamide-sodium salt	294
d-norpseudoephedrine-HCl	248	Dicyanodiamide	294, 304
d.l-ephedrine hydrochloride	248	Dicyclohexylphthalate	280
Dairy cattle feed	68	Dicyclopentadiene	276, 278
Dandelion powder	248	Dicyclopentadienyliron	302
Desulphurising agent	292	Dicyclopentylene 2,2'-bis-(4-methyl-	
Detergent	342 ff	6-tert.-butylphenol)	278
Devil's claw	248	Didecanoyl peroxide	294
Dextran sulfate	294	1,3-diethyldiphenyl urea	294

Digitalis leaves	250	3-(3,5-di- <i>tert.</i> -butyl-4-hydroxyphenyl)- propionic-acid-methylester	276
Diglycerides of edible fatty acids	314	3-(3,5-di- <i>tert.</i> -butyl-4-hydroxyphenyl)- propionic-acid-octadecyl-ester	274
3,4-dihydro-2-methyl-3- <i>o</i> -tolyl quin- azolinone-(4)	296	3-(3',5'-di- <i>tert.</i> -butyl-4'-hydroxyphenyl) propionic acid octadecyl-ester	276
1,2-dihydro-2,2,4-trimethylchinoline	274	2,6 di- <i>tert.</i> -butyl-4-methylphenol	276
1,2 dihydro-2,2,4-trimethyl-quinoline- polymer	344	2,6 ditertiary-butyl- <i>p</i> -cresol	344
Dihydro-Dane salt	296	Ditertiary butyl- <i>p</i> -cresol	298
Dihydroxyacetone	296	Ditertiary parabutylcresol	298
Dilauroyl peroxide	296	Diuron	304
Diltiazem HCl	254	Dog food	70
Dimelamine phosphate	296	Dough premix	70
Dimethyl aminoethyl-iso-thio urea	296	Doxylaminesuccinate	250
1,3-dimethyldiphenyl urea	296	Draff flour	70
Dimethyl terephthalate	296	Drawing agent	300
Dimethylaminophenazone	250	Drawing compound	418
Dimyristyl peroxidicarbonate	296	Drug	250, 260, 266
Diperoxy dodecandiacid	296	Dry glucose	254
Diphenamide	260	Duo graphite	390
Diphenyl urethane	296	Duroplast powder	36
Disodium	296	Durum wheat groats	70
Disodium lauric acid monoethynol- amido-sulphosuccinic acid halfester	296	Durum wheat haze	70
Disodium laurylalcohol sulphosuccinic acid halfester	296	Dye	344 ff, 418
Disodium salt of the ethylene diamine tetraacetic acid	296	Dye developer	298
Dispersion acid	298	Dye powder	344, 346
Dispersion dye	346	Dye soot	158
Dispersion powder	298	Dysprosium	380
Disulphonamide	250	<b>Egg powder</b>	70
2,5-di- <i>tert.</i> -amylhydrochinone	276	Elastine powder	300
(3,5-di- <i>tert.</i> -butyl-4-hydroxyphenyl)- propionicacidester	276	Electrode carbon	146
		Electrode graphite	390
		Electrolyte	418

Electrolytic iron powder	374	Ethylenevinylacetate	224
Electronic parts	434	Evaporator material	300
Emulsifier	300	Expandable polystyrene	202
Emulsion PVC	220	Expanded graphite	390
Enamel powder	388		
Enzyme	270, 272, 300, 318	<b>F</b> abric	178
Enzyme preparation	250	FAS powder	344
Epoxy polyester	174	Fat	70 ff, 82, 92, 94, 96, 104, 138, 300, 440
Epoxy resin	172, 174, 176, 180, 184, 226, 228, 230, 272, 304, 306, 348, 366, 418, 420, 430	Fat coal	144
EPS (cf. Expandable polystyrene)	202	Fat concentrate	70 ff
Ergot	162	Fat emulsifier	138
Escin	250	Fat free milk powder	256
Escin acid	250	Fat powder	72
Ester	276, 296, 300, 302, 314	Fat whey mixture	72
Ester of a sterically hindered amino alcohol	348	Fatty acid	302, 308, 314
Esters of methacrylic acid	302	Fatty acid derivatives	300
Estradiole hemihydrate	250	Fatty acid glycerides	74
Estradiole valerianate	250	Fatty alcohol	302, 302
Ethene acetic acid ethenyl ester polymere	300	Fatty alcohol sulphate	302
Ethinyl estradiole	250	Feather meal	72
2-ethoxybenzamide	250	Feed	52, 54, 60, 66, 68, 72, 84, 92, 98, 102, 104, 106, 134
2-ethoxy-4,6-dihydroxy pyrimidine	300	Feed additive	72
Ethoxycarbonyl hydroxy-methyl naphthylridine	300	Feed concentrate plant	418
Ethoxylate	272	Fennel fruits	126
Ethylene	208, 210, 298	Fennel tea	126
Ethylene copolymers	390, 438	Fenuron	304
Ethylene urea	300	Ferrocene	302
Ethylene vinyl acetate copolymer	300	Ferrochromium	372
Ethyleneglycol stearate	332	Ferromanganese	372
		Ferromolybdenum	372
		Ferroniobium	372
		Ferrosilicon	372



Ferrotitanium	374	Food seasoning	74
Ferrovandium	374	Foodstuff yeast	140
Fertiliser	40, 42, 346, 418, 426	Forestry waste	36
Fibre mat	48	Formaldehyde	180
Fibres	188, 192, 418, 420, 422, 434, 436, 440	Formamidine acetate	174
Filling paste	396	Foundry grit	358
Filter cake	430	Foxglove	250
Filter flakes	302	Frankish drug	250
Filtration additive	302	Fresh contact	144
Fir	46	Fresh water shrimps	74
Fish feed	72	Fructose	74
Fish meal	52	Fructus Sennae	264
Flame retardant	346	Fruit acid	76, 346
Flame retardant material	436	Fruit juice	74
Flame soot	158	Fuchsine base	346
Flame sprayed aluminium	354	Fumaric acid	302
Flame sprayed zinc	386	Fungicide	250
Flame spraying	418	<b>G</b> aboon	46
Flax	36, 110, 162	Galactomannan	162, 302
Flocculant	302	Galactose	76
Flock	170, 182, 184, 188, 192, 196, 338	Gall	166
Flock graphite	434	Gamma-cyclodextrin	162
Flour	72, 74, 126, 304	Garlic	252
Fluocortolon capronate	250	Gas coal	146
Fluoride	392	Gas cutting dust	434
Fly ash	400	Gas flame coal	148, 400
Foam	182, 196, 202, 204, 206, 224	Gelatine	76, 254, 294, 434
Fodder	70	Gelling agent	76
Foil grit	360, 378, 434	Ginger	76
Foil recycling	194	Ginkgo aroma blend	252
Foil waist	184	Ginkgo extract	252
Folia Sennae	264	Glandular fibres	440
		Glass fibre reinforced plastic	174 ff

Glass fibres	420, 420, 422	Grit	84, 98, 136, 358, 360, 378, 434
Glibenclamide	252	Groats	80
Glucose	76, 98, 254	Guanidine carbonate	302
Glucose anhydride	348	Guanidine nitrate	302 ff
Glucose syrup	76	Guanidine phosphate	304
Glue	176	Guanidine stearate	332
Glutamate	76, 98	Guanine	304, 348
Gluten	162	Guar core flour	162
Glycerine monostearate	332	Guar flour	162
Glycerol	398	Guar kernel meal	434
Glycerol monostearate palmitate	302	Gun metal	414
Glycol	290		
Glycose	96	<b>Haemoglobin powder (cf. Blood meal)</b>	162
Gold bronze powder	368	Hairs	102, 164
Golden rod	252	Hard coal	146, 152, 400, 402, 432
Grain	78	Hard coal coke	148, 154
Grain screening pellets	78	Hard coal slurry	154
Graminis flowers	162	Hard flour	80
Graphite	218, 270, 308, 310, 366, 388 ff, 416, 434	Hard foam	182
Graphite coal	390	Hard lignite	150
Gravy	78	Hard metal	374
Greaves flour	78	Hard paper	176, 422
Green pea	100	Hard rubber	238, 240
Grinder cleanings	80	Hard wax	242
Grinding	38, 106, 164, 174, 176, 178, 168, 184, 190, 192, 206, 208, 222, 236, 238, 240, 348, 354, 356, 364, 366, 368, 370, 374, 376, 384, 386, 396, 414, 420 ff, 430, 434, 436	Hard wheat flour	438
Grinding agent	420	Hard wheat semolina	138
Grinding agent manufacture	420	Hardboard	48
Grindstone processing	422	Hardener	304 ff, 420
		Hardfabric	176
		Hawthorn	252
		Hawthorn tea	126
		Hazelnut abrasion	80
		Hazelnut macaroons	80
		Heat insulation material	422

Heating set	400	Humic acids	246
Herbal stomach tablets	252	Hydrated sugar	308
Herbicide	252 ff	Hydrazobenzene	306
Herbs	162, 252, 254, 256	Hydro-carbon compounds	402
Hexachlorophene	262	Hydro-carbon polymer	400
Hexamethylene tetramine	304, 306, 316, 318	Hydro-carbon resin	402
Hexamethylene tetramine filler	316	Hydrocarbon	242, 348
Hexamethylene tetramine-lubricant	316	Hydrocarbon resin	230, 232
Hexamethylenetetramine mandelate	254	Hydrocarbonic wax	392
Hexamethylmelamine	306	Hydrocolloids	76
Hexitol	272	Hydroxypropyl starch	110
Hexoses	260	1-hydroxy-2-(1H)-pyridine thion- disulphide	306
Hibiscus powder	80	12-hydroxystearic acid	306
Hide glue	176	1-(2-hydroxy-3-sulfopropyl)-pyridinium- betaine	274
High adsorbtion filter flakes	302	<b>Ibuprofen</b>	254
High dispersive silicic acid	422	Icing sugar	122, 124, 136
High grade zinc cast. alloy	374	Ilmenite	422
High pressure polyethylene	196	1H-imidazole	304
High-volatile coal	292, 294	Imidazole derivative	306
Honey gruel powder	80	Immersion polishing agent	424
Hop	162	Immobilised cells	270
Hop blossom	162	Impact strength promoter	306
Hop cones	162	India rubber	240
Hop draff	162	Indian flea seeds	260, 262
Hop pellets	162	Infant food	80
Hop powder	80	Instant coffee	64
Horn meal	162	Instant skim milk powder	96
Horse-chestnut	164	Instant whole milk powder	96
Horse-chestnut extract	254	Insulation material	176, 424
Horsehair	34	Insulation tubes	422
Horsetail herb	254	Ion exchange resin	232
Human hair	102		
Humic acid product	164		

Ion exchanger	306 ff	lactic acid casein	282
Iron	302, 366, 374 ff, 380, 406, 418, 422, 434, 438	lactobac acid	308
Iron (II) succinate	308	Lactose	70, 80 ff, 94, 138, 244, 248, 252, 254
Iron alloy	364, 366, 380, 404	lactose-1-hydrate	254
Iron fumarate	254	lady's thistle (cf. Maria thistle)	164
Iron oxide	396	lake dry substance	344
Iron powder	438	Laminate	176, 422, 424
Iron slurry powder	374	Latex	240, 420, 426
Iron sponge	376	Laurate	308
Iron sulphide	400	Lauryl sulphate	308
Iron-titanium alloy	376	Laxative granulate	254
Isocyanate	236	Laxative lozeng	256
Isomalt	308	Lead	334
Isophthalodinitrile	308	Lead bronze	376
Isosorbide dinitrate	254	Lead chromate	218
Isosorbitol-5-mononitrate	254	Lead fumarate	308
<b>J</b> uice binding jelly	80	Lead phosphite	308, 334, 424
Juniper berry oil	254	Lead phthalate	308
Jute	36, 50	Lead soap	308, 312
<b>K</b> aolin	174, 262, 304, 440	Lead stearate	218, 312, 332, 414, 424
Karion	246	Lead sulphate	308, 424
Ketogulonic acid	308	Lead sulphochromate	348
Ketone formaldehyde	290	Lean coal	148
Kieselguhr	302	Leather	164
Knifing filler	348	Leaven	82
Kollidon	268	Leaven ingredients	82
<b>L</b> arginine	254	Lecithin	72
L-cystine	254	Lemon tea	126
Lacquer	424	light metal	408, 436
Lactic acid	74	light protective agent	348, 350
		lignin	36
		lignine sulphonate	54
		lignite	148 ff, 292

Lignite coke	146, 152 ff	Magnesium-calcium-silicon alloy	378
Lignite coke slack	154	Magnesium-diasporal	256
Lignite flour	418	Magnesium-silicon alloy	378
Lignite slack	152	Magnesium-silicon-iron-copper alloy	378
Lignite slurry	154	Magnesiumaluminium silicate-hydrate	256
Lily of the valley	248, 256	Magnetic powder alloy	380
Linters	36	Maizarin	82
Liquorice	82	Maize	74, 78, 82 ff, 104
Lithium aluminium	400	Maize flour	70, 84, 90
Lithium salt	400	Maize germs	86
Lithium silicon	400	Maize gluten	84
Lithium stearate	332	Maize gluten feed	84
Lithium-12-oxystearate	308	Maize grit	84, 434
Lonazolac-calcium	256	Maize grits film	86
Long term fertiliser	346	Maize meal	404
Low pressure polyethylene	196, 198	Maize powder	86
Lubricant	308 ff	Maize starch	52, 82, 90, 110, 112, 114, 118, 268
Lupin	160	Maize swelling starch	118
Lupin semolina	82	Makore	46
Lycopodium	164	Maleic acid anhydride	242
<b>Magnesite</b>	<b>390, 418, 434</b>	Maleic acid anhydride copolymer	314
Magnesium	376 ff, 376, 416	Maleinate resin	232
Magnesium alloy	366, 378	Malic acid	310
Magnesium aluminium hydroxide	266	Malt	86 ff
Magnesium citrate	268	Malt flour	88
Magnesium citrate x14 hydrate	256	Malt germs	88
Magnesium clofibrate	256	Malt grist	88
Magnesium die cast	424	Malt residues	88
Magnesium ethylate	348	Malting barley	56
Magnesium oxide	366, 398, 428	Maltodextrin	54, 58, 88, 90
Magnesium peroxomono-phtholate		Malva seed	90
hexahydrate	310	Man-made textile fibres	436
Magnesium stearate	332, 426	Mancozeb	250
			457

Mandelic acid	256	Melamine polycondensate	312
Maneb	250	Melamine pyrophosphate	312
Manganese	378	Melamine resin	180, 232
Manganese metal powder	378	Melamine stearate	334
Manioc swelling flour	90	Melamine sulphate	312
Mannite	256	Melamine-phenol-cellulose	180
Mannitol	272, 310, 334	Melissa powder	258
Maria thistle (cf. Lady's thistle)		Melone	312
Maria thistle seed extract	256	Mesterolone	258
Marine animal oil	96	Metal	378 ff, 424, 432, 434
Marrowfat pea	100	Metal abrasion	434
Masa meal	90	Metal mix alloy	382
Mashed potato flakes	90	Metal powder	380
Mass PVC	222	Metallic alloy	380
Matting agent	310	Metallic soap	312, 396
MBS (cf. Methyl methacrylate butadiene styrene)	218	Methacrylamide	312
MBS resins	322	Methacrylate	290
Meal	52, 54, 56, 58, 70, 72, 78, 90, 92, 98, 106, 108, 140	Methacrylic acid	302
Meat and bone meal	90 ff	Methacrylic acid amide	312
Meat meal	78, 92	Metheneaminehippurate	258
Mechanically alloyed metal powder	380	Methionine	258
Medical powder	262	Methocarbamol granules	258
Medicaments	256 ff, 424	Methyl beta cyclodextrin	164
Melamine	178, 180, 236, 310	Methyl cellulose	342
Melamine borate	312	Methyl methacrylate	184, 236
Melamine cyanurate	312	Methyl methacrylate butadiene styrene (cf. MBS)	178 ff, 202
Melamine formaldehyde resin	232, 422	Methyl methacrylate copolymer	184
Melamine formate	312	Methylcellulose	176, 284
Melamine oxalate	312	Methylcellulose glue	176
Melamine peroxide	312	5-methyl-7-diethyl-amino-s-triazolo- 1.5a-pyrimidine	336
Melamine phosphate	312	2,2'-methylene-bis-6-(1,1-dimethyl- ethyl)-4-methylphenol	276
Melamine phthalate	312		

4,4'-methylene-bis-2,6-dimethyl-phenol	290	Mixed drink	62
2,2'-methylene-bis-[4-methyl-6-(1-methyl-cyclohexyl)]	278	Mixed feed	98
2,2'-methylene-bis-(4-methyl-6- <i>tert.</i> -butyl-phenol)	276	Modified maize starch	114
2,2'-methylene-bis-4-methyl-6- <i>tert.</i> -butyl-phenol	290	Modified starch	114, 116, 434
2,2-methylene-bis-(4-methyl-6- <i>tert.</i> -butyl-phenol)	312	Molasses	98
2,2-methylene-bis-(4-methyl-6- <i>tert.</i> -butyl- <i>p</i> -phenol)	348	Molybdenum	380, 418
3-methyl-2,5-furandione	312	Molybdenum disulphide	308, 310, 390
5-methyl-7-hydroxy-1,3,4-triazaine dolizine	314	Mono tartaric acid	300
2-methyl imidazole	174, 314	Monoazo dye	346
1,1'-4 (Methyl- <i>m</i> -phenylene)-bis-(3,3'-dimethylurea)	304	Monocarbonic acid	314
2,2'-(2-methylpropylidene)-bis-(4,6-di-methylphenol)	276	Monocarboxylic starch	98
Methylpyridylaminomethylene malonic acid diethyl ester	314	Monoglycerides	314
4-methyl-3-thiosemicarbicide	348	Monosaccharides	76
Methylvinylether	314	Monosodium glutamate	98
Microsuspension PVC	222	Monosodium hydrogen cyanamide	314
Milk	256	Montmorillonite derivative	314
Milk feed	92	Mordant	250
Milk mixed product	92	Moulding compounds	180 ff
Milk powder	92 ff, 434	Moulding sand	424
Milk protein	104, 282	Multilayer facade slab	398
Milk substitute	96	Mustard	98
Millet grits	98	Mustard flour	98
Mineral drink	98	Mustard-seed	98
Mistletoe	258	Myristinate	330
Mistletoe tea	128	<b>N</b> ,O-bis-(trimethylsilyl)-urea	338
		N-carbobenzoxy-L-threonine amide	314
		N-cetylpyridinium chloride mono-hydrate	258
		N-cetyl-N.N.N-trimethyl-ammonium bromide	258
		N.N-diethyl- <i>p</i> -phenylene-diamine-hydrochloride	298

N,N-diethyl-p-phenylene-diamine sulphate	298	Nickel alloy	366, 380 ff, 408
N,N-dimethyl-N'-phenylurea	304	Nickel powder	380
N,N-dimethyl-N'3,4-dichlorophenyl-urea	304	Nickel silver	436
N[2-[N-Ethyl-N-[4-amino-3-methyl-phenyl]-amino]-ethyl]-methane-sulphonamide-sesquisulphate	298	Nickel-aluminium alloy	380 ff
N,N'-1,6-hexanediy-bis-[3,5-bis(1,1-dimethylethyl)-4-hydroxy]	276	Nickel-metal mix alloy	382
N(2-hydroxyethyl)-N-methyl-guanidiniumsulphate	314	Nifedipine	258
N-methyl-N'-diphenyl urea	314	Niobium	382
Na carboxymethyl cellulose	286	Niobium alloy	384
NaHNCN	314	Nitrate	388, 392
Naphthalic acid anhydride	314	Nitride	388, 392
Naphthaline	314	Nitro varnish	182
Naphthaline sulphonic acid formolite	314	Nitrobenzoic acid	316
2-naphthol	314	Nitrocellulose	348
Naphthol sulphonic acid chloride	316	5-nitrofurylacrolein	316
Naphtholsulphonic acid	316	Nitrogen fertilizer	426
Naphthyl aminosulphonic acid	316	Nitroguanidine	316
Native potato starch	118	NN' ethylenebisstearamide	242
Native starch	116	Non-ferrous metal smelting	426
Natural asphalt	402	Norethisterone	258
Natural graphite	218, 390	Norethisterone acetate	258
Natural latex	240, 426	Norpseudoephedrine resinate	258
Natural leaven	82	Novolake	182, 316
Natural resin	234	Nut tree	46
Natural textile fibres	436	Nutmeg flowers	258
Needle coke	154	Nylon flock	182
Neodymium	380	o-methyl isourea sulphate	316
Neodymium-iron-boron alloy	380	o-phenylenediamine	316
Nickel	368, 380 ff, 408, 436	o-tolyl-biguanide N-o-tolyl-N'-guanyl-guanidine	274, 278
		Oak bark	258
		Oat	78, 98
		Oatmeal	98
		Octadecanoic acid calcium salt	316



Octadecanoic zinc	316	Pakistani drug	260
Octadecyl-3-(3,5-di- <i>tert.</i> -butyl-4-hydroxyphenyl)-propionate	278	Palm expeller	100
Octyl sulphate	316	Palm oil	96
Oil	96	Palmitine	314
Oil absorber	316	Palmitoyl ethylene diamine	242
Oil coke	142	Papaverinium chloride	260
Oil shale	426	Paper	36 ff, 176, 178, 398, 422, 424, 426, 432
Olefin sulphonate	344	Paprika	100
Olive pellets	98	Para nitrobenzoic acid	316
Olive stones	166	Para toluic acid	336
Optical brightener	280	Para- <i>tert.</i> buthyl phenol	318
Orange aroma	98	Paracetamol	260
Orange instant drink	98	Paraffin	318
Orange pips	166	Paraffin Wax	242
Orange sherbet powder	98	Paraformaldehyde	304, 318, 348 ff
Ortoion lactose-1-hydrate	258	Parsley root	260
Oven	426	Parting agent	426
Ox gall	166	Pastry	100
Oxides	270	PC (cf. Polycarbonate)	432
Oxidised maize starch	114	PE (cf. Polyethylene)	184
<b>p</b> -(benzyl oxycarbonyl)-amidine		Pea flour	100
benzyl amine hydrochloride	316	Pea protein	100
p-chlorobenzonitrile	316	Pea starch	100
p-cresol	276, 278, 318	Peach powder	100
p-nitroaniline	318	Peanuts	100
PA granulate	404	Pear tree	48
Paint	192, 348, 420	Peat	40 ff
Paint and rust	408	Peat coke	42, 144
Paint ground	352	Peat powder	42
Paint removal	408	Pectin	318, 434
Paint sludge	426	Pectin sugar	124
Painting preparation	422	Pectinase	318
		Pencil sharpening	388
			461

Penicillin	246	Phenytoin	260
Pentaerythritol	318	Phosphate	76, 296, 302, 312, 428
Pentosan	260	Phosphate starch	116
Pentoses	260	Phosphite	424
Pentoxifyllin	260	Phosphorus chlorine	260
Pepper	100 ff	Photo resin	350
Peppermint leaves	260	Phthalazone	320
Peppermint powder	102	Phthalic acid anhydride	320
Peppermint tea	128	Pig bristle	102
Percarbonate	342	Pig feed	102
Perlite	302	Pigment	342, 350
Peroxide	280, 294, 296, 312	Pine	46, 48
Pesticide	260	Pine soot	158
Peichora coal	146	Pitch	156
Petroleum coke	142, 154 ff	Pitch coke	156
Petroleum resin	232, 402	Plant protection wetting agent	260
Pharmaceutical raw material	260	Plantago	254, 260 ff
Phenol	180, 278, 318	Plantago ovata seeds	260 ff
Phenol formaldehyde resin	290	Plantago seed husks	262
Phenol novolak	318	Plasma cutting aluminium	356
Phenol-formaldehyde	180	Plasma welding	438
Phenol-formaldehyde resin	234	Plastic bottle abrasion	194
Phenol-formaldehyde resorcinol resin	234	Plastic flock	184
Phenolic resin	176, 178, 182, 232, 234	Plastic wastes	186
Phenolic resin amine adduct	306	Plastics	50, 184 ff,
Phenolic resin foam	182		194, 366, 398, 404, 416,
Phenolic resin processing	426		418, 420, 422, 424, 436
Phenyl guanidine nitrate	320	Plastics-coated chipboards	416
2-phenyl imidazoline	306, 426	Plum purée	246, 254
2-phenylinide azoline	272	PMMA (cf. Polymethylmethacrylat)	432
1-phenyl-3-(1,2,3-thiadiazole-5-yl)-urea	350	Poison	262
Phenylbutazone	260	Polishing	190, 356, 358,
Phenylglycine	320		368, 374, 384, 386, 426
Phenylthiadiazolyl urea	260	Poly(ethylene terephthalate)	194

Poly(methyl-vinyl ether)maleic anhydride	198	Polyethylene oxide	320
Poly(vinyl acetate)	208 ff	Polygalactomannane derivative	320
Poly(vinyl alcohol)	210 ff	Polyglycol	364
Poly(vinyl butyral)	212, 400	Polyisocyanate	320
Poly(vinyl chloride) (cf. PVC)	212 ff	Polymeric additives	198
Poly(vinyl formal) foam	224	Polymers	174, 184, 242, 288, 294, 298, 300, 306, 314, 320, 324, 344, 338, 390, 400, 438
Polyacetal	186	Polymethacrylate	198 ff
Polyacrylamide	186	Polymethacrylate resin	234
Polyacrylate	186 ff, 272, 414	Polymethacrylic acid	200
Polyacrylonitrile	188	Polymethacrylimide	200
Polyamide	176, 188, 234	Polymethylene-urea	338
Polyamide flock	188	Polymethylmethacrylate (PMMA)	200, 432
Polyamide resin	234	Polyol	320
Polybutyl acrylate	188	Polyol instant	262
Polybutyl methacrylate	190, 200	Polyoxirane	320
Polybutylene terphthalate	350	Polyphenylene oxide	320
Polycarbonate (PC)	190, 342, 432	Polypropene	200
Polycarbonic acid	320	Polypropylene	200 ff
Polydextrose	68	Polypropylene wax	242
Polyester	172, 174, 176, 178, 182, 190 ff, 226, 234, 348, 398, 420, 422	Polysaccharide	320 ff
Polyester epoxy resin	194	Polystyrene	202, 428
Polyester flock	192	Polyurethane (PUR)	198, 202 ff, 226, 408, 422, 428
Polyester paint	192	Polyurethane resin	226
Polyester resin	176, 178, 192, 226, 234	Polyurethane sandwich elements	428
Polyester rip fibres	192	Polyvinyl butyral	322
Polyester structural powder	194	Polyvinyl cinnamate	322
Polyethylene (PE)	172, 184, 194 ff, 324, 398, 400, 426, 434	Poplar charcoal	144
Polyethylene flocks	196	Potassium benzoate	428
Polyethylene foam	196	Potassium chloride	348
Polyethylene glycol	320, 428	Potassium citrate	268
		Potassium methylate	322
			463

Potassium peroxomonosulphate	428	PVC (cf. Poly(vinyl chloride))	170, 174, 176, 186, 414, 424, 430
Potassium sorbate	322	PVC additive	322
Potato	102 ff	PVC foam sheets	430
Potato dumpling flour	102	PVC softener	350
Potato flakes	70, 90, 102	Pyrazoline derivative	280
Potato flour	102	Pyridinium propyl sulphonate	322
Potato granulate	102	3-pyridyl methanol (RR) hydrogen tartrate	262
Potato protein	104	Pyrithione zinc	262
Potato semolina	102 ff	Pyrolised rubber	434
Potato starch	104, 112, 114, 116, 118, 250, 364	Pyromellitic acid dianhydride	322
Poultry meat meal	92	<b>Quartz</b>	422, 430
Powder mixture	428	Quartz-plastic laminate	422
Powder paint	226	Quinaldine formamite	322
Powder, cosmetic	262	<b>Rape</b>	54, 104
Powder, medical	262	Rape extraction chips	104
PPN powder	330	Rape oil	322
Prawns	72	Raspberry	74
pre-oxidised titanium	384	Raspberry colouring	342
Preservative	322	Raspberry sherbet powder	104
Pressure dredging powder	104	Rat poison	262
Priming	422	Rauwolfia	262
Printed circuit board manufacture	428 ff	Raw coal	144
Propane	322	Raw coffee	64
Propylene glycol	398	Raw hop	162
Propylene glycol alginate	322	Raw lignite	152
Protein	70, 72, 82, 84, 94, 96, 104, 108, 110, 282, 284, 300, 338	Recycling	194, 238, 436
Protein fatty acid condensate	322	Recycling mixed feed	104
Protein fraction	104	Red beet powder	104
Pumice particles	426	Red phosphorus	390
PUR (cf. Polyurethane)		Refuse incineration	430
PUR mould components	408		
Putty	350, 422		

Reinforced glass fibre	418	Rubber parting compound	432
Residual coke	154	Ruscus extract	246
Resin	50, 172, 174, 176, 178, 180, 182, 184, 192, 194, 224, <b>226 ff</b> , 230, 232, 234, 236, 272, 290, 304, 306, 308, 322, 334, 348, 350, 366, 396, 400, 402, 418, 420, 422, 426, 430, 438	Rutin	<b>262</b>
Resin glue	176	Rye	78
Resin soap	<b>322</b>	Rye flour	106
Resinate	170, 246, 248, 258	Rye leaven	106
Rice	74, <b>106</b>	<b>Saccharine</b>	266, <b>324</b>
Rice dust waste	<b>106</b>	Saccharine sodium	254
Rice feed meal	<b>106</b>	Saccharose	256
Rice film	<b>106</b>	Sal ammoniac	<b>390</b>
Rice flour	<b>106</b>	Salicylamide	<b>264</b>
Rice gluten	<b>106</b>	Salicylated humic acids	246
Rice husk ash	400	Salicylic acid	246, <b>324</b>
Rice powder	<b>106</b>	Salt	344
Rice semolina	<b>106</b>	Sandalwood	42
Rice starch	118	Saponin	<b>324</b>
Rice swelling flour	<b>106</b>	Sauce binder	108
Rice swelling starch	118	Sauce Hollandaise	108
Rigid foam	202, 206, 208	Saw shavings	<b>432</b>
Rigid polyurethane	206	Sawdust	44, <b>432</b>
Rolled steel	408	Scleroglucane biopolymer	<b>324</b>
Roller oil cleaning unit	<b>430</b>	Seasoning aroma	278
Root resin	234	Seasoning blend	108
Rosemary extract	<b>262</b>	Seasoning powder	108
Rosemary leaves	<b>262</b>	Seaweed	434
Rosemary residue	<b>262</b>	Seaweed meal	108
Rubber	164, <b>236 ff</b> , 240, 400, <b>430 ff</b> , 434	Sebacic acid	<b>324</b>
Rubber mixing operation	<b>430 ff</b>	Seeds	166
		Senna extract	<b>264</b>
		Senna fruit	<b>264</b>
		Senna leaves	<b>264</b>
		Seven corn film	108
		Sewage sludge	154, <b>432</b>
			465

Shellac	242, 350	Sodium adipate	326
Ship parts	422	Sodium alcohol sulphate	326
Shoe processing	434	Sodium amide	326
Shredder dust	434	Sodium benzoate	326
Silibinine	264	Sodium bicarbonate	326
Silicates	426	Sodium bisulphate	328
Silicic acid	324 ff	Sodium calcium edetate	326
Silicide	370	Sodium carbonate	328
Silicomanganese	382	Sodium carboxy methyl cellulose	342
Silicon	288, 382, 430	Sodium caseinate	284
Silicon alloy	366, 370, 372, 378, 386	Sodium cetyl stearyl sulphate	264
Silicon carbide	288, 376, 390	Sodium chloride	294, 348
Silicon nitride	288, 392	Sodium chlorite	392
Silicone resin	234	Sodium cocoyl isethionate	350
Silk flock	170	Sodium cyclamate	254, 328
Sillitin	210	Sodium dibunate	328
Silver	436	Sodium ethylate	328
Silybin	264	Sodium fluoride	392
Silychristin	264	Sodium glutamate	328
Silydianin	264	Sodium hexametaphosphate	328
Silymarine	264	Sodium humate	328
Sinter dust	418, 434	Sodium hydrogen carbonate	328, 328
Sintered magnesite	418	Sodium hydrogen cyanamide	328
Sintered magnesite fine flour	434	Sodium hydrogen sulphate	328, 428
Skim milk	92, 94, 96	Sodium L(+) ascorbate	264
Slack	152, 154	Sodium lauryl sulphate	344
Slide grinder	434	Sodium lignin sulphonate	328
Slug killer	264	Sodium methallyl sulphonate	328
Smallbore rifle stand	418	Sodium methylate	328
Soap	322, 342, 350, 350, 396	Sodium nitrate	110, 366, 392
Soap base	264	Sodium oleate	328
Soda	400	Sodium pentosan polysulfate	264
Sodium	366	Sodium perborate	328
Sodium acetate	326		

Sodium perborate anhydride	328	Spruce	48
Sodium salt	270, 288,	St John's wort	266
	290, 308, 316, 334, 336	St John's wort extract	110, 266
Sodium stearate	334	St Mary's thistle (cf. Lady's thistle)	
Sodium sulphate	328	Stabiliser	330, 434
Sodium tripolyphosphate	328, 428	Stainless steel	408
Sodium-calcium citrate	270	Starch	52, 58, 78, 82, 84, 90, 98,
Sodium-L-glutamate monohydrate	328		100, 104, 110 ff, 114, 116, 118,
Sodiumiodopodate	264		120, 248, 250, 268, 294, 364, 434
Soft foam polyurethane	208	Starch derivative	120, 434
Soft PVC	186, 222	Starch ether	330
Soft wheat	134, 136	Starch sucification product	120
Soft wheat haze	136	Starch syrup	120
Soft wheat semolina	136	Steam coal	148
Softener	224, 294, 324	Stearate	262, 272,
Softwood	48, 434		312, 330 ff, 414, 424, 426
Solid dispersion	328	Stearic acid	254
Solid softener	294	Stearic acid	314, 334, 424
Soot	156 ff, 236, 240, 300, 434	Stearyl alcohol	334
Soot water concentrate	392	Stearyl phthalate	334
Sorbite	262	Steel	366, 368,
Sorbitol	108, 260, 266, 272		378, 382 ff, 400, 406, 408, 410,
Sorbose	266		412, 414, 428, 432, 434 ff, 438
Soya	96, 108 ff	Steel wool	378
Soya bean, coarse	108	Sterically hindered multicore phenol	278
Soya flakes	108	Stilbene	280
Soya flour	108 ff	Stinging nettle	266
Soya oil	96	Stinging nettle root	266
Soya protein concentrate	110	Straw	166
Spirolactone	266	Streptomycin pantothenate	246
Spray cream powder	110	Streptomycin sulphate	246
Spray grit	358	Structural steel	438
Spring elements	412, 414	Styrene acrylate resin	334
Spring steel	408	Styrene acrylonitrile copolymerisate	242

Styrene methacrylic acid	242	Tablet filming	268
Succinic acid anhydride	334	Talcum	262, 330, 332
Sucralfate	334, 334	Tallow alcohol sulphate	334
Sucralfate-mannitol co-dried gel	334	Tallow soap	350
Sucrose aluminium octasulphate	334	Tamarinds core flour	166
Sugar	62, 70, 72, 114, 120 ff, 136, 268, 308, 418	Tanning agent	334
Sugar beet abrasion	124	Tansy tea	128
Sugar beet chips	124	Tantalum-niobium alloy	384
Sugar beet pellets	124	Tapioca	126
Sulfate (cf. Sulphate)		Tartaric acid	336
Sulphate (Sulfate)	294, 298, 302, 308, 312, 316, 326, 328, 344, 350, 424, 428, 440	TDI urane	304
Sulphide	308, 310, 400	Tea	126 ff
Sulphite modified ketone formaldehyde	290	Tea decaffeination	436
Sulphonate	322, 344	Tea powder	128
Sulphonated animal fat	140	Tempering steel	408
5-sulphosalicylic acid	334	Tenside	336, 428
Sulphur	262, 392	Tensides	342
Sunflower abrasion	124	Terephthalic acid	290
Sunflower seed expeller	124	Terephthalic acid dinitrile	336
Sunflower seed pellets	124	Terpene resin	236
Suraffiné	372	Terpenephenolic resin	236
Suspension PVC	222, 224	Testicles	160
Sweet whey	96	Tetraacetylenethylenediamine	336
Sweet whey powder	140	Tetrabromo- <i>o</i> -cresol 2,3,4,5 tetra- bromo-6-methyl phenol	336
Sweetener	126, 266	Tetrakis[methylene(3,5-di- <i>tert</i> -butyl-4- hydroxyhydrocinnamate)]methane	278
Swelling flour	126, 138	Tetramethylpiperidine	350
Swelling starch	112, 118	Tetramethylthiuramdisulphide	268
Synthetic resin	234, 236, 308, 396, 420	Textile dust	436
Synthetic rubber	240	Textile fibres	436
Syrup	120	Textile particles	426
		Theatrical paint	346



Thermosetting plastics	404	Toner resin	438
4,4'-thio-bis(6- <i>tert.</i> -butyl-3-methyl-phenol)	274	Toothpaste manufacture	438
4,4'-thio-bis[2-(1,1-dimethylethyl)-5-methyl]-phenol	276	Trapidil	336
2,2'-thiodiacetic acid	336	Tree bark	166
Thiourea	336	Tri-indole	336
Thiuram	336	Triacetate	242
Thyme	162	Triazonone amino alcohol	336
Thyroid glands	166	1,3,5-triazine-2,4,6-triole	290
TiAl6V4 alloy	422	Tricalcium phosphate	302, 308
Tin oxalate	394	Trimellitic acid anhydride	336
Tinplate steel	382, 384	Trimethylol propane trimethacrylate	294
Tissue	38, 40	Trimipramine hydrochloride	268
Titanium	376, 380, <b>384 ff</b> , 410, 420	Trioxane	186
Titanium alloy	370, 376	Tris(hydroxy methyl)-amino-methane	268
Titanium boride	422	1,1,3-tris(1-hydroxy-3-methyl-6- <i>tert.</i> -butyl phenol) butane	274
Titanium borite	350	Trisodium citrate	338
Titanium carbide	394	Trisodium citrate dihydrate	348
Titanium carbonitride	394	Tryptophan	130
Titanium diboride	286, 394	Tungsten	380
Titanium dioxide	202, 386, 428	Tyre incinerator	158
Titanium hydride	394	Tyre recycling	238, 436
Titanium sponge	386	Tyrosine	338
Titanium suboxide	394	<b>U</b> nderseal	422
Titanium-calcium-silicon alloy	386	Urane	304
Tobacco	128 ff	Urea	180, 260, 294, 296, 300, 304, 314, 336, <b>338</b> , 350
Tolclofos methyl	250	Urea formaldehyde resin	438
4-toluene sulfonamide	336	Urea residues	408
Toluene diisocyanates (cf. TDI)		Urea-formaldehyde-cellulose	182
Toluene sulfonate	336	5-ureidohydantoin	244
Toluic acid	336		
Tomato powder	130		
Toner	438		

<b>V</b> alерian powder	268	Wheat	78, 132 ff
Valerian roots	268	Wheat abrasion	132
Vanadium	410	Wheat bran	134, 246, 254
Vegetables	130	Wheat flour	134 ff, 438
Vinyl acetate	390, 438	Wheat gluten	136
Vinyl acetate copolymers	174, 298, 338	Wheat grits	136
Vinyl alcohol	210, 338	Wheat haze	136
Vinyl chloride	242	Wheat powder	136
Vinyl chloride polyacrylate	218	Wheat protein	338
Vinyl chloride polyacrylate graft copolymer	306	Wheat semolina	138
Vinylacetate	222, 224	Wheat semolina film	138
Vinylester	210	Wheat starch	118, 120
Vinyl laurate	210	Wheat swelling flour	138
Viscose flocks	338	Wheat swelling starch	118
Viscum album	258	Wheat wastes	138
Vitamin	268	Wheatgerm	138
Vulcanisation moulds of aluminium	412	Whey	138 ff
		Whey fat emulsifier	138
		Whey powder	92, 138 ff
<b>W</b> adding	42	Whole milk powder	96
Wafer dust	130 ff	Whole milk substitute	92
Wafer flour	132	Wholemeal	140
Wallpaper paste	350	Wild thyme	162
Walnut meal	166	Winter wheat	134
Walnut shells	166, 404	Wood	42 ff, 186,
Wash coal	158		420, 422, 424, 432, 434
Waste bunker	438	Wood flour	72, 180, 440
Wax	242, 424, 426	Wood meal	166
Wax maize starch	90, 118	Wood pulp	50, 302
Wax powder	338	Woodruff colouring	342
Welding dust	438	Wool	166
Welding electrode coating	438	Wormwood powder	268
Welding smoke	422		
Wettable sulphur	392	<b>X</b> anthane	434

<b>Yarrow</b>	162, 268	Zinc cyanamide	338
Yeast	70, 140	Zinc dibenzyl dithiocarbamate	340
Yellow flour	440	Zinc dibutyl dithiocarbamate	340
Yellow maize	82	Zinc-N,N-ethylphenyl dithio- carbamate	340
<b>Zamak</b>	386	Zinc oxide	386, 394, 400
Zentramin	268	Zinc pressure die casting	386
Zeolites	342	Zinc-(N,N'-propylene-1,2-bis- (dithiocarbamate))	252
Zinc	262, 316, 368, 374, 384, 386, 400, 410, 412, 414, 440	Zinc pyridine thione	340
Zinc alloy	370, 412	Zinc ricinoleate	340
Zinc bath emissions	440	Zinc stearate	262, 272, 334, 426, 440
Zinc behenate	312	Zinc sulphide	308, 310
Zinc-bis-(N,N-dimethyl dithio- carbamate)	340	Zinc tetraoxochromate	350
Zinc coated steel	410	Zirconium	372, 410
		Zirconium diboride	394