

Tables of combustion and explosion characteristics of dusts

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

Product group 3 Miscellaneous		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_{St} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m ³	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

Product group 3 Miscellaneous		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_{St} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m ³	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

Product group 3 Miscellaneous		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		1 100			1500	
Aluminium/rubber/steel	1766	90	78 100	53		33 100	21		115	
Aluminium/rubber/steel, dust deposits	1767	59	30 100	13		9 100	5		440	
Aluminum oxide/poly(vinyl butyral) (75:25)	4438					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	
Battery manufacture, waste product (lithium salt/ lith.-silicon, lith.-aluminium/ iron sulphide/heating set)	5243								<250	0.0
Bentonite, active/gas flame coal (50:50)	1181	98	92 100	81		68 100	43		35	
Bentonite, active/resin (50:50)	1180			100		88 100	51		30	
Bentonite, active, with hydrocarbon polymer/ coaldust/soda	5238	100	99 100	91		65 100	44		40	8.9 5.2 5.2
Bentonite/asphalt/hard coal/ organic buffer substances (15:45:35:5)	1169		90 100			55 100			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			53 100			60	

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 ³	bar	bar m/s		% by vol.	mJ	°C	°C	°C	BZ
100			St 1						2
200			St 1						2
185			St 1 yes				450	410	2
	n.i.					n.i.u.850		n.g.u.450	3
125	1.9	35	St 1						1
200			St 1						4
	n.i.					n.i.u.850		n.g.u.450	
60	n.i. 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

Product group 3 Miscellaneous		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
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_{St} Value	Explo- sibility	Limit. Oxy- gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Tempera- ture	Com- bustibil- ity
						G-G	BAM		
g/m ³	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
200			yes St 1		1000/10000		470		2
100			yes St 1		1000/10000		470		2

Product group 3 Miscellaneous		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 _{St} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m ³	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

Product group 3 Miscellaneous		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	86 100		<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 _{St} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G °C	BAM °C		
g/m ³	bar	bar m/s		% by vol.	mJ			°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
	n.i.		no						1

Product group 3 Miscellaneous		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 35	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 _{St} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m ³	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

Product group 3 Miscellaneous		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 55 100	37		50	0.1 0.2 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		17 100	7		140	0.1 0.1 0.1
Blasting dust, steel and aluminium	5454	59	42 100	31		24 100	17		350	0.1 0.1 0.1
Blasting dust, titanium (blasting agent: granulated walnut shells)	0796		100			100				
Blasting dust, vanadium/aluminium alloy (blasting agent: light metal)	1232		100	97		92 100	77		11	
Blasting dust, zinc (blasting agent: cast steel)	0797		100			100				
Blasting dust, zinc coated steel (blasting agent: sand)	5601	100	97	93		86 100	73		10	0.4 0.4
Blasting dust, zinc coated steel (blasting agent: sand)	5599	100	71 100	28		5 100	1		190	0.1 0.1 0.1
Blasting dust, zinc coated steel (blasting agent: sand), cabin	5600	99	56 100	11		2			240	0.1 0.1 0.1
Blasting dust, zirconium	2815			100					<10	
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 _{St} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m ³	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

Product group 3 Miscellaneous		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		18 14	
	1472	98	97	91		80 100	65	61	19 15	
Blasting dust, hot blasting of spring elements	1464		100	99		85 100	69		20 16	
	1465		100	95		67 100	45	61	38 22	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	Com-bustibility
						G-G	BAM		
g/m ³	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

Product group 3 Miscellaneous		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 _{St} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m ³	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

Product group 3 Miscellaneous		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							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 _{St} Value	Explo-sibility	Limit. Oxy-gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibil-ity
						G-G	BAM		
g/m ³	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

Product group 3 Miscellaneous		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 60 100	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 77 100			22	
Flame spraying dust	5297	92	85 100	78		66	42		40	1.4 1.4 1.4
Flame spraying dust, alumi- nium/iron/molybdenum	5537			100		100 98	89		<10	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 _{St} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m ³	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

Product group 3 Miscellaneous		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 _{St} Value	Explo-sibility	Limit. Oxy-gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m ³	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

Product group 3 Miscellaneous		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		31 100	17		120	
Grinding dust, melamine formaldehyde resins	5147	99	97	82		58 100	35 69	55	53 18	2.5 2.5
Grinding dust, painting preparation	5428					100	98	95	<10	1.1
Grinding dust, painting preparation	5427		100	97		95 100	88		<10	1.5 1.5
Grinding dust, paper/melamine formaldehyde resins (70:30)	5146	99	92 100	63		24 100	8		110 34	4.1 2.4 2.4
Grinding dust, polyester/quartz	2566				98		86	64	16	
Grinding dust, polyurethane/priming	1975	92	89 100	84		64 100	36		46	
Grinding dust, putty	1579	99	98	93		80 100	54		30	
Grinding dust, quartz/plastic laminate	5023	97	92 100	80		57 100	30		57	
Grinding dust, ship parts, dust deposits	5104	34	20 100	9		5 100	3		840	17 0.9 0.9
Grinding dust, TiAl6V4 alloy	5155	81	73 100	44		17 100	10		170	40 0.1 0.1
Grinding dust, underseal, putty/aluminium (80:20)	5055	55	42 100	31		19 100	13		390	
Grinding dust, wood/iron/aluminium/plastics	0788		100			100				
Grinding dust/welding smoke	5429	98	72 100	43		14	4		150	1.4 1.4
Heat insulation material, (66 % high dispersive silicic acid, 33 % Ilmenite, 3 % glass fibre, 1,5 % cellulose, 1,5 % titanium boride)	5189			100		97	65		23	1.9

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 ³	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

Product group 3 Miscellaneous		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		60 100	33		50	
Lead phosphite mixture (52 % dibasic lead phosphite, 9 % neutral lead stearate, 15 % wax)	5203	6	4	3		2	1		>10 ⁴	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 ⁴	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		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 _{St} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m ³	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

Product group 3 Miscellaneous		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	88			<10
Non-ferrous metal smelting	5161	99	99	96		90	81			<10
						100				1.8
						100				1.8
						100				1.8
						100				1.8
Oil shale	2211				99		79	50	20	
Oil shale	2212				71		50	39	32	
Oven, dust deposits	3441	92	88	66		43	32		79	3.9
		100	100							
						100				
						100				
Paint sludge, dried	5377	89	79	63		48	20		75	1.4
			100							1.4
						100				1.4
Paint sludge, dried	5382	100	98	60		28	2		100	0.6
			100							0.6
						100	3		48	0.6
Parting agent (30 % zinc stearate, 55 % si- licates, 10 % wetting agent)	0804		100			100				
Parting agent (mainly magnesium stearate)	5504	99	96	85		70	52		30	1.9
Parting agent dust (containing wax)	5544	90	82	78		40	2		100	1.2
			100							1.2
						100	4		48	1.2
Phenolic resin processing	2834								18	
2-phenyl imidazoline/cya- nuric acid/zinc stearate/ silica (52:46:1:1)	1829	96	86	80		62	54		26	
			100							
						100				
						100				
Polishing dust (natural latex, pumice and textile particles)	1461	77	71	44		10	2		155	
			100							
						100	13	3	40	
						100	13	3	40	
Polyethylene/paper/ aluminium	1939	94	91	86		82	61		15	
			100							
						100				

Lower Explos. Limit	Max. Explos. Over-pressure	K _{St} Value	Explo-sibility	Limit. Oxy-gen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibil-ity
						G-G	BAM		
g/m ³	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

Product group 3 Miscellaneous		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	63		17	
Polystyrene/aluminium/steel, offcuts from roller blind cases (coarse dust)	5049	38	33 100	16		11	5		700	
Polyurethane sandwich elements, drilling and cutting dust	1944	38	34 100	14		10	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	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	57		24	0.2 0.2 0.2
Printed circuit board manufacture, sawdust	1823	99	98	96		91	80		<10	
Printed circuit board manufacture, dust deposits	1525	95	88 100	80		63	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	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	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 _{st} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G °C	BAM °C		
g/m ³	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

Product group 3 Miscellaneous		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
Quartz sand/aluminium/ silicon (80:11:9)	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 _{st} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m ³	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 4 3
30			St 1						4
30			St 1						4
100			St 1						3

Product group 3 Miscellaneous		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			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. Overpressure	K _{St} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G	BAM		
g/m ³	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 ⁶		410	250	4
250	7.7	67	St 1		>2 · 10 ⁶		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

Product group 3 Miscellaneous		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							100
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		40	
						100				
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 _{St} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m ³	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

Product group 3 Miscellaneous		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 _{st} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Combustibility
						G-G °C	BAM °C		
g/m ³	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						

Product group 3 Miscellaneous		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	
Urea formaldehyde resin/ hard wheat flour/wood flour/hardener and kaolin (60:30:3:7)	1198		100	95		63 100	34		46	
Vinyl acetate/ethylene copolymers/clay	1683	100	85 100	60		39 100 100	23 66 66	35 35	99 26 26	
Waste bunker, dust deposits	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 _{st} Value	Explosibility	Limit. Oxygen Conc.	Minimum Ignition Energy	Ignition Temperature		Glowing Temperature	Com-bustibility
						G-G	BAM		
g/m ³	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

Product group 3 Miscellaneous		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
Yellow flour (wood flour, ammonium sulphate, glandular fibres, 20 % fat)	0779		100		33	100	6		90	
Zinc bath emissions	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 ³	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 2)						5
			St 1						2
			St 1						2