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WOLLASTONIT - very small particle size grades

Quality	Particle Size	Loss on Ignition	Aspect Ratio
WOLLASTONIT KF-1010	D50 ≤ 04,5 µm D97 ≤ 10,0 µm	≤ 5,0 %	-
WOLLASTONIT KFB-1020	D50 ≤ 07,0 µm D97 ≤ 20,0 µm	≤ 5,0 %	-
WOLLASTONIT KFB 1025	D50 ≤ 09,0 µm D97 ≤ 30,0 µm	≤ 5,0 %	-
WOLLASTONIT KWB-1020	D50 ≤ 06,0 µm	≤ 4,0 %	-
WOLLASTONIT KWB-1025	D50 ≤ 08,0 µm	≤ 4,5 %	-

WOLLASTONIT - small particle size grades

Quality	Particle Size	Loss on Ignition	Aspect Ratio
WOLLASTONIT KS-1(B)	> 150 µm ≤ 1 %	≤ 4,0 %	1:10 - 1:15
WOLLASTONIT KF-2	> 075 µm ≤ 1 %	≤ 4,0 %	-
WOLLASTONIT KS-3	> 100 µm ≤ 1 % > 063 µm ≤ 10 %	≤ 4,0 %	1:10 - 1:15
WOLLASTONIT KF4	> 045 µm ≤ 1 %	≤ 4,0 %	-

WOLLASTONIT - high aspect ratio grades

Quality	Particle Size	Loss on Ignition	Aspect Ratio
WOLLASTONIT K-60	500 – 1000 µm 0 – 5 % 250 – 500 µm 0 – 10 % 125 – 250 µm 0 – 10 % 63 – 125 µm 12 – 35 % 45 – 63 µm 22 – 60 % < 45 µm 25 – 60 %	≤ 4,0 %	1:15 – 1:20
WOLLASTONIT KM-60	500 – 1000 µm 0 – 5 % 250 – 500 µm 0 – 15 % 125 – 250 µm 20 – 65 % 63 – 125 µm 20 – 45 % < 63 µm 10 – 45 %	≤ 5,5 %	1:10 – 1:15
WOLLASTONIT KF-60	500 – 1000 µm 0 – 5 % 250 – 500 µm 0 – 10 % 125 – 250 µm 0 – 10 % 63 – 125 µm 12 – 35 % 45 – 63 µm 22 – 60 % < 45 µm 25 – 60 %	≤ 4,0 %	1:15 – 1:20
WOLLASTONIT KMF-60	500 – 1000 µm 0 – 5 % 250 – 500 µm 0 – 15 % 125 – 250 µm 20 – 65 % 63 – 125 µm 20 – 45 % < 63 µm 10 – 45 %	≤ 6,5 %	1:10 – 1:15



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WOLLASTONIT - special grades

Quality	Particle Size	Loss on Ignition	Aspect Ratio
WOLLASTONIT H-60	> 250 µm ≤ 1,0 % > 075 µm ≤ 20,0 %	≤ 4,0 %	-
WOLLASTONIT KSV-42F	> 250 µm ≤ 0,5 % > 075 µm ≤ 5,0 %	≤ 4,0 %	1:10 – 1:15
WOLLASTONIT KSV-51	> 250 µm ≤ 0,5 % > 075 µm ≤ 5,0 %	≤ 3,0 %	1:15 – 1:45
WOLLASTONIT D-1	> 1000 µm 0 – 10 % 500 – 1000 µm 20 – 50 % 250 – 500 µm 25 – 55 % 125 – 250 µm 5 – 25 % 63 – 125 µm 0 – 10 % 45 – 63 µm 0 – 05 % < 45 µm 0 – 05 %	≤ 4,5 %	1:10 – 1:15

WOLLATROP® - green strength modifiers / silicate based

Quality	Bulk density	Residual moisture	pH-Value
WOLLATROP® LV	~ 0,15 g/cm ³	-	-
WOLLATROP® S	0,21 – 0,33 g/cm ³	≤ 8 %	8,3 – 9,3
WOLLATROP® SE	0,21 – 0,33 g/cm ³	≤ 13,5 %	-
WOLLATROP® SF	0,21 – 0,33 g/cm ³	≤ 10 %	-
WOLLATROP® S/240	0,35 – 0,50 g/cm ³	≤ 6 %	8,1 – 9,1

LUVOGEL® - green strength modifiers / layered silicate based

Quality	Density	Residual moisture	pH-Value	Remarks
LUVOGEL® W1	~ 2,4 g/cm ³	≤ 10 %	9,0 – 10,0	Layered silicate (Montmorillonite)
LUVOGEL® W2N	~ 2,4 g/cm ³	≤ 10 %	8,5 – 10,0	synthetic silicate (Hectorite)
LUVOGEL® W3	~ 2,4 g/cm ³	≤ 10 %	-	Modified silicate (Montmorillonite)
LUVOGEL® WS1	~ 2,4 g/cm ³	≤ 10 %	9 – 10,0	modified synthetic silicate (Hectorite)
LUVOGEL® WS2	~ 2,4 g/cm ³	≤ 10 %	8 – 10,0	modified synthetic silicate (Hectorite)



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OMEGA-SIL - solid micro beads reinforcement filler / pozzolanic active, silicate based

Quality	Density	Bulk density	Particle size
OMEGA-SIL XS	~ 2,51 g/cm ³	~ 0,78 g/cm ³	D50: 3,5 µm D90: 9,5 µm
OMEGA-SIL S	~ 2,48 g/cm ³	~ 0,80 g/cm ³	D50: 4,4 µm D90: 11,4 µm
OMEGA-SIL M	~ 2,40 g/cm ³	~ 0,87 g/cm ³	D50: 6,5 µm D90: 28,7 µm
OMEGA-SIL L	~ 2,39 g/cm ³	~ 0,88 g/cm ³	D50: 12,3 µm D90: 77,3 µm

OMEGA-SPHERES® - lightweight monocellular ceramic hollow microspheres

Quality	Density	Particle size	Temperature resistance	Remarks
OMEGA-SPHERES® 150	~ 0,7 g/cm ³	up to 160 µm	~ 1200°C	Grey
OMEGA-SPHERES® 300	~ 0,7 g/cm ³	up to 300 µm	~ 1200°C	Grey
OMEGA-SPHERES® SG	~ 0,7 g/cm ³	up to 500 µm	~ 1200°C	Grey
OMEGA-SPHERES® W150	~ 0,7 g/cm ³	up to 160 µm	~ 1600°C	Off-white
OMEGA-SPHERES® W300	~ 0,7 g/cm ³	up to 300 µm	~ 1600°C	Off-white
OMEGA-SPHERES® WM	~ 0,7 g/cm ³	up to 300 µm	~ 1600°C	Off-whit, reduced fine particle fraction

OMEGA-SIL - solid micro beads reinforcement filler / pozzolanic active, silicate based

Quality	Bulk density	Particle size
TRI-SPHERES® 45XS ULTRA	~ 450 kg/m ³	D90 ~ 80 µm
TRI-SPHERES® 90XL	~ 090 kg/m ³	D90 ~ 700 µm
TRI-SPHERES® 100XL	~ 090 kg/m ³	D90 ~ 1700 µm
TRI-SPHERES® 120XL	~ 120 kg/m ³	D90 ~ 800 µm
TRI-SPHERES® 200	~ 200 kg/m ³	D90 ~ 380 µm
TRI-SPHERES® 250	~ 250 kg/m ³	D90 ~ 500 µm
TRI-SPHERES® 300	~ 300 kg/m ³	D90 ~ 270 µm
TRI-SPHERES® 300S	~ 300 kg/m ³	D90 ~ 135 µm
TRI-SPHERES® 400	~ 400 kg/m ³	D90 ~ 400 µm
TRI-SPHERES® 400S	~ 400 kg/m ³	D90 ~ 160 µm
TRI-SPHERES® 500S	~ 500 kg/m ³	D90 ~ 140 µm



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OMEGA-SPHERES® - lightweight monocellular ceramic hollow microspheres

Quality	Density	Bulk density	Particle size	Crush strength
Q-CEL® 6014	0,14 g/cm ³	0,08 g/cm ³	Mean: < 105 µm D90: < 190 µm	250 psi
Q-CEL® 6019	0,19 g/cm ³	0,11 g/cm ³	Mean: < 80 µm D90: < 150 µm	500 psi
Q-CEL® 6019S	0,19 g/cm ³	0,11 g/cm ³	Mean: < 70 µm D90: < 135 µm	500 psi
Q-CEL® 6717	0,19 g/cm ³	0,10 g/cm ³	Mean: < 52 µm D90: < 105 µm	500 psi
Q-CEL® 7019	0,19 g/cm ³	0,21 g/cm ³	Mean: < 80 µm D90: < 150 µm	500 psi
Q-CEL® 7023S	0,23 g/cm ³	0,26 g/cm ³	Mean: < 85 µm D90: < 135 µm	750 psi
Q-CEL® 5028	0,25 g/cm ³	0,16 g/cm ³	Mean: < 75 µm D90: < 120 µm	750 psi
Q-CEL® 6036	0,35 g/cm ³	0,21 g/cm ³	Mean: < 70 µm D90: < 115 µm	1.000 psi
Q-CEL® 7040S	0,40 g/cm ³	0,26 g/cm ³	Mean: < 60 µm D90: < 95 µm	2.000 psi
Q-CEL® 6042S	0,42 g/cm ³	0,26 g/cm ³	Mean: < 60 µm D90: < 100 µm	2.000 psi
Q-CEL® 6048	0,47 g/cm ³	0,27 g/cm ³	Mean: < 60 µm D90: < 105 µm	3.000 psi
Q-CEL® 5070S	0,70 g/cm ³	0,42 g/cm ³	Mean: < 45 µm D90: < 53 µm	3.500 psi

OMEGA-SPHERES® - lightweight monocellular ceramic hollow microspheres

Quality	Density	Bulk density	Particle size	Crush strength
SPERICEL® 110P8	1,10 g/cm ³	0,49 g/cm ³	Mean: < 12 µm Range: 2 – 25 µm	10.000 psi
SPERICEL® 60P18	0,60 g/cm ³	0,32 g/cm ³	Mean: < 20 µm Range: 5 – 35 µm	8.000 psi
SPERICEL® 45P25	0,45 g/cm ³	0,26 g/cm ³	Mean: < 27 µm Range: 5 – 50 µm	4.000 psi
SPERICEL® 34P30	0,34 g/cm ³	0,22 g/cm ³	Mean: < 39 µm Range: 10 – 70 µm	3.000 psi



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TYZOR® - Organic titanate / spinel forming and crystal doping, surface treatment and coating

Quality	Active content	Active content	Description
Tyzor® IBAY	TiO ₂ ~ 10,6 %	100 %	titanium ethyl acetoacetate complex
Tyzor® LA	TiO ₂ ~ 13,6 %	50 %	hydrolytically stable water-based titanium chelate
Tyzor® NPT	TiO ₂ ~ 28,1 %	100 %	tetra-n-propyl titanate
Tyzor® TE	TiO ₂ ~ 13,7 %	80 %	triethanolamine titanium complex
Tyzor® TnBT	TiO ₂ ~ 23,5 %	100 %	tetra-n-butyl titanate
Tyzor® TPT	TiO ₂ ~ 28,1 %	100 %	tetra-isopropyl titanate

DIANAL® - Acrylic bead resins / transfer coatings

Quality	Tg 2	Non volatiles	Description
Dianal BR-101	58,5 – 61,5 °C	≥ 98,5 %	Decor transfer coating, residue-free combustion
Dianal BR-117	43,5 – 46,5 °C	≥ 99,0 %	Decor transfer coating, residue-free combustion

DIANAL® - Acrylic bead resins / green strength modifiers / transfer coatings

Quality	Molecular Weight	Acid Value	Description
Dianal PB-103	~ 45.000	143 – 153 KOH/g	water-soluble by aminoneutralisation, residue-free combustion
Dianal PB-204	~ 9.000	44 – 60 KOH/g	water-soluble by aminoneutralisation, residue-free combustion
Dianal PB-324	~ 22.000	~ 134 KOH/g	water-soluble by aminoneutralisation, residue-free combustion
Dianal PB-588	~ 90.000	40 – 50 KOH/g	water-soluble by aminoneutralisation, residue-free combustion



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LUVOMAG® Natural Magnesium Oxide

Quality	MgO (%)	SiO ₂ (%)	CaO (%)	Fe ₂ O ₃	Grain size (%)
LUVOMAG® MO W-98	98,0	0,50	1,30	0,03	95,00 < 75 µm / 200 mesh
LUVOMAG® MO S-97	98,0	0,50	1,00	0,60	95,00 < 75 µm / 200 mesh
LUVOMAG® MO GS-97	97,0	0,20	1,00	0,18	95,00 < 45 µm / 325 mesh
LUVOMAG® MO W-95	96,0	1,00	1,40	0,04	95,00 < 75 µm / 200 mesh
LUVOMAG® MO S-95	95,5	1,00	1,80	1,20	90,00 < 75 µm / 200 mesh
LUVOMAG® MO W-92	94,0	1,90	1,90	0,09	95,00 < 75 µm / 200 mesh
LUVOMAG® MO F-4	94,0	2,00	2,00	0,50	95,00 < 75 µm / 200 mesh
LUVOMAG® MO S-92	92,5	2,00	3,50	1,20	90,00 < 75 µm / 200 mesh
LUVOMAG® MO F-1	91,0	2,40	2,50	0,60	99,90 < 45 µm / 325 mesh
MAGNULUV MAGNESIA USTA	91,0	4,00	2,50	1,20	99,90 < 45 µm / 325 mesh
LUVOMAG® MO 54	90,0	3,00	3,00	0,70	0,3 – 0,8 mm

LUVOMAG® Synthetic Magnesium Oxide

Quality	MgO (%)	CaO (%)	Fe ₂ O ₃ (%)	Surface area (BET) (m ² /g)	Bulk Density loose (g/l)
LUVOMAG® M 999	99,9	0,01	0,002		
LUVOMAG® M I	99,7	0,09	0,004	6,80	590
LUVOMAG® M 060	99,7	0,18	0,006	10,00	490
LUVOMAG® M 029	99,1	0,03	0,040	10,00	400
LUVOMAG® M H30	97,8	0,57	0,020	40,00	220
LUVOMAG® M 045	98,4	0,87	0,130	45,00	350
LUVOMAG® M 028	97,5	0,03	0,040	55,00	400
LUVOMAG® M E	99,2	0,60	0,009	70,00	145
LUVOMAG® M 04	98,7	1,10	0,030	70,00	85
LUVOMAG® M 072	98,5	0,50	0,040	100,00	395
LUVOMAG® M 074	98,6	0,52	0,040	105,00	400
LUVOMAG® M 075	98,6	0,52	0,040	105,00	400
LUVOMAG® M 047	98,5	0,85	0,130	106,00	380
N50®	97,8	0,80	0,020	142,00	230
LUVOMAG® M 044	98,4	0,90	0,120	145,00	370
LUVOMAG® M SF	99,6	0,09	0,001	150,00	d50: ~ 1.0 µm
MAGLITE® A (RX) *	> 88,0	< 1,00	0,10	165,00	230
MAGLITE® D (RX) *	> 90,0	< 1,00	0,10	160,00	230
MAGLITE® DE *	97,5	0,50	0,04	150,00	350



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MAGLITE® Y *	94,5	0,50	0,03	55,00	417
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LUVOMAG® Natural Magnesium Carbonate

Quality	MgO (%)	SiO ₂ (%)	CaO (%)	Grain size (%)
MAGCARLUV MC 45	45,0	3,50	2,50	95,00 < 45 µm / 325 mesh
MAGCARLUV MC EXTRA 45	46,0	0,90	1,30	CUSTOMIZED

LUVOMAG® Synthetic Magnesium Carbonate

Quality	MgO (%)	Ca (%)	Fe (%)	Bulk Density loose (g/l)
LUVOMAG® C 014	43,0	0,31	0,030	80
LUVOMAG® C 013	43,8	0,25	0,003	120
LUVOMAG® C 025	42,0	0,32	0,010	165
LUVOMAG® C 430	42,5	0,30	0,010	170
LUVOMAG® C 440	42,5	0,30	0,010	250
LUVOMAG® C 400	42,8	0,75	0,002	440
LUVOMAG® C 450	42,5	0,30	0,010	500
LUVOMAG® C 060	41,9	0,26	0,020	650

LUVOMAG® Natural Magnesium Hydroxide

Quality	MgO (%)	SiO ₂ (%)	CaO (%)	Grain size (%)
BRUCITE 3-6 mm	65,0	5,50	3,00	3 – 6 mm
LUVOMAG® H 255	65,0	5,00	3,00	99,50 < 45 µm / 325 mesh
LUVOMAG® H 038	62,5	4,00	2,50	99,90 < 45 µm / 325 mesh

LUVOMAG® Synthetic Magnesium Hydroxide

Quality	Mg(OH) ₂ (%)	CaO (%)	Fe ₂ O ₃ (%)	Bulk Density loose (g/l)
LUVOMAG® H 006	98,7	0,09	0,0001	100
LUVOMAG® H 010	99,8	0,06	0,0006	310
LUVOMAG® H 003	98,9	0,40	0,0300	350
LUVOMAG® H 013	98,2	0,20	0,0100	630
Quality	Mg(OH) ₂ (%)	CaO (%)	Cl (%)	Surface area (BET) (m ² /g)
LUVOMAG® H 041	98,7	0,09	0,0001	100
LUVOMAG® H 256	> 99,0	< 0,01	< 0,4900	230
LUVOMAG® H 258	> 99,0	< 0,01	< 0,4900	230
LUVOMAG® H 043	99,8	0,06	0,0006	310
LUVOMAG® H 046	98,9	0,40	0,0300	350



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LUVOMAG® Fused Magnesia

Quality	MgO (%)	SiO ₂ (%)	Fe ₂ O ₃ (%)	Working Temperature (°C)
LUVOMAG® FM E 94	> 94,0	< 3,50	< 0,80	550
LUVOMAG® FM E 95	> 95,0	< 3,00	< 0,60	700
LUVOMAG® FM E 96	> 96,0	< 1,00	< 0,45	850
LUVOMAG® FM E 97	> 97,5	< 1,00	< 0,45	> 950



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Rare Earth Compounds

Quality	Purity	Powder	Solution
Cerium Acetate	99,9 % - 99,999 %	X	X
Cerium Carbonate	99 % - 99,999 %	X	
Cerium Chloride	99 % - 99,999 %	X	X
Cerium Hydroxide	99 % - 99,999 %	X	
Cerium Nitrate	99 % - 99,999 %	X	X
Cerium Oxide	99 % - 99,999 %	X	
Cerium-III-Sulphate	99,9 %	X	
Cerium-IV-Sulphate	99,5%	X	
Dysprosium Acetate	99 % - 99,999 %	X	X
Dysprosium Carbonate	99 % - 99,999 %	X	
Dysprosium Chloride	99 % - 99,999 %	X	X
Dysprosium Hydroxide	99 % - 99,999 %	X	
Dysprosium Nitrate	99 % - 99,999 %	X	X
Dysprosium Oxide	99 % - 99,999 %	X	
Dysprosium Sulphate	99,9 %	X	
Erbium Acetate	99 % - 99,999 %	X	X
Erbium Carbonate	99 % - 99,999 %	X	
Erbium Chloride	99 % - 99,999 %	X	X
Erbium Hydroxide	99 % - 99,999 %	X	
Erbium Nitrate	99 % - 99,999 %	X	X
Erbium Oxide	99 % - 99,999 %	X	
Erbium Sulphate	99 % - 99,999 %	X	
Gadolinium Acetate	99,9 % - 99,999 %	X	X
Gadolinium Carbonate	99,9 % - 99,999 %	X	
Gadolinium Chloride	99,9 % - 99,999 %	X	X
Gadolinium Hydroxide	99,9 % - 99,999 %	X	
Gadolinium Nitrate	99,9 % - 99,999 %	X	X
Gadolinium Oxide	99,9 % - 99,999 %	X	
Gadolinium Sulphate	99,9 % - 99,999 %	X	

Particle size, BET and non-rare-earth impurities can be adjusted individually according to customer requirements.



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Rare Earth Compounds

Quality	Purity	Powder	Solution
Europium Acetate	99,9 % - 99,999 %	X	X
Europium Carbonate	99,9 % - 99,999 %	X	
Europium Chloride	99,9 % - 99,999 %	X	X
Europium Hydroxide	99,9 % - 99,999 %	X	
Europium Nitrate	99,9 % - 99,999 %	X	X
Europium Oxide	99,9 % - 99,999 %	X	
Europium Sulphate	99,9 % - 99,999 %	X	
Holmium Acetate	99 % - 99,999 %	X	X
Holmium Carbonate	99 % - 99,999 %	X	
Holmium Chloride	99 % - 99,999 %	X	X
Holmium Hydroxide	99 % - 99,999 %	X	
Holmium Nitrate	99 % - 99,999 %	X	X
Holmium Oxide	99 % - 99,999 %	X	
Holmium Sulphate	99 % - 99,999 %	X	
Lanthanum Acetate	99 % - 99,999 %	X	X
Lanthanum Carbonate	99 % - 99,999 %	X	
Lanthanum Chloride	99 % - 99,999 %	X	
Lanthanum Hydroxide	99 % - 99,999 %	X	
Lanthanum Nitrate	99 % - 99,999 %	X	X
Lanthanum Oxide	99 % - 99,999 %	X	
Lanthanum Sulphate	99 % - 99,999 %	X	
Lutetium Acetate	99,9 % - 99,999 %	X	
Lutetium Carbonate	99,9 % - 99,999 %	X	
Lutetium Chloride	99,9 % - 99,999 %	X	
Lutetium Hydroxide	99,9 % - 99,999 %	X	
Lutetium Nitrate	99,9 % - 99,999 %	X	X
Lutetium Oxide	99,9 % - 99,999 %	X	
Lutetium Sulphate	99,9 % - 99,999 %	X	

Particle size, BET and non-rare-earth impurities can be adjusted individually according to customer requirements.



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Rare Earth Compounds

Quality	Purity	Powder	Solution
Neodymium Acetate	99 % - 99,999 %	X	X
Neodymium Carbonate	99 % - 99,999 %	X	
Neodymium Chloride	99 % - 99,999 %	X	X
Neodymium Hydroxide	99 % - 99,999 %	X	
Neodymium Nitrate	99 % - 99,999 %	X	X
Neodymium Oxide	99 % - 99,999 %	X	
Neodymium Sulphate	99 % - 99,999 %	X	
Praseodymium Acetate	99 % - 99,999 %	X	X
Praseodymium Carbonate	99 % - 99,999 %	X	
Praseodymium Chloride	99 % - 99,999 %	X	
Praseodymium Hydroxide	99 % - 99,999 %	X	
Praseodymium Nitrate	99 % - 99,999 %	X	
Praseodymium Oxide	99 % - 99,999 %	X	
Praseodymium Sulphate	99 % - 99,999 %	X	
Samarium Acetate	99,9 % - 99,999 %	X	X
Samarium Carbonate	99,9 % - 99,999 %	X	
Samarium Chloride	99,9 % - 99,999 %	X	X
Samarium Hydroxide	99,9 % - 99,999 %	X	
Samarium Nitrate	99,9 % - 99,999 %	X	X
Samarium Oxide	99,9 % - 99,999 %	X	
Samarium Sulphate	99,9 % - 99,999 %	X	
Scandium Acetate	99,9 % - 99,999 %	X	X
Scandium Carbonate	99,9 % - 99,999 %	X	
Scandium Chloride	99,9 % - 99,999 %	X	X
Scandium Hydroxide	99,9 % - 99,999 %	X	
Scandium Nitrate	99,9 % - 99,999 %	X	X
Scandium Oxide	99,9 % - 99,999 %	X	
Scandium Sulphate	99,9 % - 99,999 %	X	

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Rare Earth Compounds

Quality	Purity	Powder	Solution
Terbium Acetate	99 % - 99,999 %	X	X
Terbium Carbonate	99 % - 99,999 %	X	
Terbium Chloride	99 % - 99,999 %	X	X
Terbium Hydroxide	99 % - 99,999 %	X	
Terbium Nitrate	99 % - 99,999 %	X	X
Terbium Oxide	99 % - 99,999 %	X	
Terbium Sulphate	99 % - 99,999 %	X	
Thulium Acetate	99,9 % - 99,999 %	X	X
Thulium Carbonate	99,9 % - 99,999 %	X	
Thulium Chloride	99,9 % - 99,999 %	X	X
Thulium Hydroxide	99,9 % - 99,999 %	X	
Thulium Nitrate	99,9 % - 99,999 %	X	X
Thulium Oxide	99,9 % - 99,999 %	X	
Thulium Sulphate	99,9 % - 99,999 %	X	
Ytterbium Acetate	99,9 % - 99,999 %	X	X
Ytterbium Carbonate	99,9 % - 99,999 %	X	
Ytterbium Chloride	99,9 % - 99,999 %	X	X
Ytterbium Hydroxide	99,9 % - 99,999 %	X	
Ytterbium Nitrate	99,9 % - 99,999 %	X	X
Ytterbium Fluoride	99,9 % - 99,999 %	X	
Ytterbium Oxide	99,9 % - 99,999 %	X	
Ytterbium Sulphate	99,9 % - 99,999 %	X	
Yttrium Acetate	99 % - 99,999 %	X	X
Yttrium Carbonate	99 % - 99,999 %	X	
Yttrium Chloride	99 % - 99,999 %	X	X
Yttrium Hydroxide	99 % - 99,999 %	X	
Yttrium Nitrate	99 % - 99,999 %	X	X
Yttrium Oxide	99 % - 99,999 %	X	
Yttrium Sulphate	99 % - 99,999 %	X	

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LUVOZIRC® - Ammonium Zirconium Carbonate Solution

Quality	Chemical formula	CAS No.	ZrO ₂ (+HfO ₂)
LUVOZIRC® AZCS20	(NH ₄) ₂ [Zr(CO ₃) ₂ (OH) ₂]·H ₂ O	68309-95-5	19,5 – 20,5 %

LUVOZIRC® - Potassium Zirconium Carbonate Solution / Powder

Quality	Chemical formula	CAS No.	ZrO ₂ (+HfO ₂)
LUVOZIRC® PZCS20	K ₂ [Zr(CO ₃) ₂ (OH) ₂]·H ₂ O	23570-56-1	19,0 – 21,0 %
LUVOZIRC® PZCP55	K ₂ [Zr(CO ₃) ₂ (OH) ₂]	23570-56-1	50,0 – 60,0 %

LUVOZIRC® - Zirconium Acetate Solution / Powder

Quality	Chemical formula	CAS No.	ZrO ₂ (+HfO ₂)
LUVOZIRC® ZAS20	Zr(CH ₃ COO) _n ·H ₂ O	7585-20-8	19,0 – 21,0 %
LUVOZIRC® ZAS22	Zr(CH ₃ COO) _n ·H ₂ O	7585-20-8	21,0 – 23,0 %
LUVOZIRC® ZAS25	Zr(CH ₃ COO) _n ·H ₂ O	7585-20-8	24,0 – 26,0 %
LUVOZIRC® ZAS30	Zr(CH ₃ COO) _n ·H ₂ O	7585-20-8	29,0 – 31,0 %
LUVOZIRC® ZAP60	Zr(CH ₃ COO) _n	7585-20-8	54,0 – 58,0 %
LUVOZIRC® ZASHP20	Zr(CH ₃ COO) _n ·H ₂ O	7585-20-8	19,5 – 20,5 %
LUVOZIRC® ZASHP25	Zr(CH ₃ COO) _n ·H ₂ O	7585-20-8	24,5 – 25,5 %
LUVOZIRC® ZASHP30	Zr(CH ₃ COO) _n ·H ₂ O	7585-20-8	29,5 – 30,5 %

LUVOZIRC® - Zirconium Basic Carbonate

Quality	Chemical formula	CAS No.	ZrO ₂ (+HfO ₂)	PSD (d ₅₀)
LUVOZIRC® ZBC40	Zr ₂ (CO ₃)(OH) ₂ O·H ₂ O	57219-64-4	38,0 – 42,0 %	15 - 35 µm

LUVOZIRC® - Zirconium Nitrate Solution

Quality	Chemical formula	CAS No.	ZrO ₂ (+HfO ₂)
LUVOZIRC® ZNS20	ZrO(NO ₃) ₂ ·H ₂ O	13826-66-9	19,0 – 21,0 %
LUVOZIRC® ZNS25	ZrO(NO ₃) ₂ ·H ₂ O	13826-66-9	24,0 – 26,0 %
LUVOZIRC® ZNS30	ZrO(NO ₃) ₂ ·H ₂ O	13826-66-9	29,0 – 31,0 %



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LUVOZIRC® - Zirconium Oxy Chloride

Quality	Chemical formula	CAS No.	ZrO ₂ (+HfO ₂)
LUVOZIRC® ZOC35	ZrOCl ₂ · 8H ₂ O	13520-92-8	35,0 – 37,0 %

LUVOZIRC® - Zirconium Hydroxide (sulfur free)

Quality	Chemical formula	CAS No.	ZrO ₂ (+HfO ₂)	PSD (d ₅₀)
LUVOZIRC® ZOH40	Zr(OH) ₄ · H ₂ O	14475-63-9	38,0 – 42,0 %	20 - 40 µm
LUVOZIRC® ZOH50	Zr(OH) ₄ · H ₂ O	14475-63-9	48,0 – 52,0 %	
LUVOZIRC® ZOH75	Zr(OH) ₄ · H ₂ O	14475-63-9	70,0 – 80,0 %	20 - 40 µm
LUVOZIRC® ZOH85	Zr(OH) ₄ · H ₂ O	14475-63-9	83,0 – 87,0 %	20 - 40 µm

LUVOZIRC® - Zirconium Basic Sulphate

Quality	Chemical formula	CAS No.	ZrO ₂ (+HfO ₂)	PSD (d ₅₀)
LUVOZIRC® ZBS40	5 ZrO ₂ 3SO ₄ · H ₂ O	62010-10-0	38,0 - 40,0 %	20 - 50 µm

LUVOZIRC® - Zirconium Phosphate

Quality	Chemical formula	CAS No.	ZrO ₂ (+HfO ₂)	PSD (d ₅₀)
LUVOZIRC® ZP35	Zr(NaPO ₄) ₂ · H ₂ O	13765-95-2	34,0 – 38,0 %	20 - 50 µm
LUVOZIRC® ZPP55	Zr(HPO ₄) ₂ · H ₂ O	13772-29-7	53,0 – 58,0 %	20 - 50 µm

LUVOZIRC® - Zirconium Dioxide

Quality	Chemical formula	CAS No.	ZrO ₂ (+HfO ₂)	PSD (d ₅₀)
LUVOZIRC® A1	ZrO ₂ (+HfO ₂)	1314-23-4	99,5 – 99,99 %	0,2 – 0,3 µm
LUVOZIRC® Z3	ZrO ₂ (+HfO ₂)	1314-23-4	99,5 – 99,99 %	4 – 30 µm
LUVOZIRC® Z5	ZrO ₂ (+HfO ₂)	1314-23-4	99,5 – 99,99 %	4 – 30 µm
LUVOZIRC® Z8	ZrO ₂ (+HfO ₂)	1314-23-4	99,5 – 99,99 %	4 – 30 µm
LUVOZIRC® Z12	ZrO ₂ (+HfO ₂)	1314-23-4	99,5 – 99,99 %	4 – 30 µm
LUVOZIRC® Z15	ZrO ₂ (+HfO ₂)	1314-23-4	99,5 – 99,99 %	4 – 30 µm
LUVOZIRC® Z20	ZrO ₂ (+HfO ₂)	1314-23-4	99,5 – 99,99 %	< 1 µm
LUVOZIRC® Z50	ZrO ₂ (+HfO ₂)	1314-23-4	99,5 – 99,99 %	< 1 µm
LUVOZIRC® DZ	ZrO ₂ (+HfO ₂)	1314-23-4	99,5 – 99,99 %	3 – 5 µm



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LUVOZIRC® - Fused Zirconium

Quality	Chemical formula	CAS No.	ZrO ₂ (+HfO ₂)	PSD (d ₅₀)
LUVOZIRC® FZ1	ZrO ₂ (+HfO ₂)	1314-23-4	min. 95,5 %	13 - 18 µm
LUVOZIRC® FZ3	ZrO ₂ (+HfO ₂)	1314-23-4	min. 95,5 %	1 - 2 µm

LUVOZIRC® - Zirconia toughened Alumina

Quality	Chemical formula	ZrO ₂ (+HfO ₂)	Al ₂ O ₃	PSD (d ₅₀)
LUVOZIRC® ZTA	Al ₂ O ₃ - ZrO ₂	~ 20 %	~ 80 %	~ 10 µm

Stabilized Zirconium Compounds - Calcia stabilized Zirconia

Quality	Chemical formula	ZrO ₂ (+HfO ₂)	CaO	PSD (d ₅₀)
LUVOZIRC® CASZ	CaO - ZrO ₂	94,5 – 95,5 %	4,5 – 5,5 %	1 – 10 µm
LUVOZIRC® CASZ P1	CaO - ZrO ₂	> 94 %	3,5 – 4,2 %	1 – 10 µm
LUVOZIRC® CASZ P2	CaO - ZrO ₂	> 95 %	3,0 – 4,2 %	1 – 10 µm
LUVOZIRC® CASZ P3	CaO - ZrO ₂	> 91 %	7,0 – 7,8 %	1 – 10 µm

Stabilized Zirconium Compounds - Magnesia stabilized Zirconia

Quality	Chemical formula	ZrO ₂ (+HfO ₂)	MgO	PSD (d ₅₀)
LUVOZIRC® MGSZ	MgO - ZrO ₂	94,5 – 95,5 %	4,5 – 5,5 %	1 – 10 µm

Stabilized Zirconium Compounds - Ytria stabilized Zirconia

Quality	Chemical formula	Y ₂ O ₃	BET	PSD (d ₅₀)
LUVOZIRC® YSZ 3mol	Y ₂ O ₃ - ZrO ₂	5,10 – 5,30 %	5 – 10 / 10 -20 m ² /g	0,3 – 0,5 µm
LUVOZIRC® YSZ 4,5mol	Y ₂ O ₃ - ZrO ₂	7,8 – 8,0 %	5 – 10 / 10 -20 m ² /g	0,3 – 0,5 µm
LUVOZIRC® YSZ 8mol	Y ₂ O ₃ - ZrO ₂	13,0 – 15,0 %	5 – 10 / 10 -20 m ² /g	0,3 – 0,5 µm

Stabilized Zirconium Compounds - Ytria stabilized Zirconia Nano sol

Quality	Chemical formula	ZrO ₂ (+HfO ₂)	Y ₂ O ₃	Primary Particle size
LUVOZIRC® YSZ 3mol Nano sol	Y ₂ O ₃ - ZrO ₂	94,65 – 94,85 %	5,15 – 5,35 %	10 – 30 nm

Zirconium oxides can also be doped with other chemical elements such as cerium (Ce), scandium (Sc), vanadium (V), niobium (Nb) or titanium (Ti). Please contact us with your individual enquiry. We can supply zirconium compounds according to your product parameters.



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ZIRCOSIL® - Zirconium Silicates

Quality	Description	SiO ₂	ZrO ₂	Application
Zircosil® Five	Finely ground zirconium silicate flour, D50 = 1.4 – 1.6 µm	33 – 36 %	61 – 65 %	Technical glass, ceramics, opacifiers in ceramic glazes (crookery, tiles and sanitary ceramics), softeners for ceramics
Zircosil® One	Fine particle size distribution, d50 = 1.1 – 1.3 µm	33 – 36,5 %	60 – 64 %	Ceramics, friction industry (e.g. brake pads)
Zircosil® D (Zirconflour)	Zirconium silicate flour from high-grade zirconium silicate sand, d50 = 12 - 16 µm	32 – 34,5 %	63 – 66 %	Cast metal, investment casting, foundry and heat-resistant materials, good heat resistance and opacity in applications such as glass, ceramics, heat-resistant materials and plastics, improves mechanical strength of glass, improves alkali resistance of glass fibres in reinforced concrete
Zircosil® 200	Not calcined, optimized gas venting, d50 = 16 - 24 µm	32 – 33,5 %	64,5 – 66 %	Investment casting, lost-wax casting process, enables very smooth surface finishes in the final product
Zircosil® 200M	Calcined, optimized venting, no contraction during the casting process, minimal loss on ignition, d50 = 16 - 24 µm	32 – 33,5 %	64,5 – 66 %	Investment casting, lost-wax casting process, enables very smooth surface finishes in the final product
Zircosil® 300M	Calcined, minimal loss on ignition, d50 = 9.0 - 16 µm	32 – 33,5 %	64,5 – 66 %	Investment casting (dimensional stability), lost-wax casting process

ZIRCOSIL® - Zirconium Sand

Quality	Description	SiO ₂	ZrO ₂	Application
Zircosil® G calcined	Natural mineral, calcined	32 – 33,5 %	64 – 65.5 %	Investment casting industry (e.g. manufacture of ceramic moulds, ladle and furnace linings), heat-resistant materials such as nozzles, tiles, bricks
Zircosil® G	Natural mineral, not calcined	32 – 33,5 %	64 – 65,5 %	Investment casting industry (e.g. manufacture of ceramic moulds, ladle and furnace linings), heat-resistant materials such as nozzles, tiles, bricks



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Titanium Dioxide

Quality	Purity	Sulphate	Chloride	Anatas	Rutile
Titanium dioxide 6960 A	> 98 %	•		•	
Titanium dioxide 6247 A	> 99 %	•		•	
Titanium dioxide 37483 A	> 98,5 %	•		•	
Titanium dioxide 5960 R	> 80 %	•			•
Titanium dioxide 5243 R	> 91 %		•		•
Titanium dioxide 3590 HP	> 99,5 %	•			•
Titanium dioxide 276 R	> 93 %	•			•
Titanium dioxide 303 A	> 80 %	•		•	
Titanium dioxide 5247 R	> 95 %		•		•
Titanium dioxide 3030 A	> 98 %	•		•	
Titanium dioxide 0504 R	> 94 %		•		•
Titanium dioxide 700 A	> 99 %	•		•	
Titaniumdioxide Nanopowder 903	> 96 %			•	
Titaniumdioxide Nanopowder 907	> 96 %			•	



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