

## O5850 – O5858 Marble dust

O5850	Marble dust, Italian, x-white, less than 32 $\mu$
O5852	Marble dust, extra fine grind, less than 32 $\mu$
O5854	Marble dust, medium grind, less than 90 $\mu$
O5856	Marble dust, coarse grind, less than 200 $\mu$
O5858	Marble dust, very coarse grind, 150 - 300 $\mu$

### Mineral Analysis

	O5850	O5852	O5854	O5856	O5858	O5858
CaCO <sub>3</sub> [%]	95.5	99.2	99.2	99.2	99.2	99.2
MgCO <sub>3</sub> [%]	3.0	0.4	0.4	0.4	0.4	0.4
FeO <sub>3</sub> [%]	0.08	0.035	0.035	0.035	0.035	0.035
Al <sub>2</sub> O <sub>3</sub> [%]	-	0.1	0.1	0.1	0.1	0.1
SiO <sub>2</sub> (Silicates) [%]	-	0.25	0.25	0.25	0.25	0.25
Volatile content at 105°C DIN EN ISO 787-2 [%]	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ignition loss DIN EN 459-2 [%]	43.6	43.8	43.8	43.8	43.8	43.8
HCl-insoluble DIN 55 918 [%]	1.4	0.3	0.3	0.3	0.3	0.3

### Physical Data

	58500	58520	58540	58560	58580	58585
Bulk density [g/cm <sup>3</sup> ]	0.76	0.75	0.73	1.0	1.2	1.35
Ramming density [g/cm <sup>3</sup> ] (DIN EN ISO 787-11)	1.4	1.4	1.35	1.7	1.6	1.65
Oil absorption [g/100g] (DIN EN ISO 787-5)	15	16	15	12	< 10	< 5
DOP-Value [g/100g] (nach DIN ISO 787-5)	25	28	27	17	12	10
Electr. conductivity (10%) [ $\mu$ S/cm] (DIN ISO 787-14)	62	43	40	43	46	38
pH-Value (DIN EN ISO 787-9)	9.4	9.6	9.6	9.6	9.6	9.6
Density [g/cm <sup>3</sup> ] (DIN EN ISO 787-10)	2.7	2.7	2.7	2.7	2.7	2.7
Hardness accor. To Mohs	3	3	3	3	3	3
Refraction index	1.59	1.59	1.59	1.59	1.59	1.59

### Optical Properties

	58500	58520	58540	58560
Luminosity (C/2°, DIN 53 163)	93.5	90.5	88	83.5
Yellow value (DIN 6167)	3.5	7.6	10	13
Color index CIELAB (DIN 6174)				
L*	97.4	96.2	95.2	93.3
a*	0.1	0.6	0.4	-0.3
b*	1.8	3.7	5.2	7.2

### Screen Analysis (DIN 53 734)

	58500	58520	58540	58560	58580	58585
Content of particles less than 630 µm						99.5 %
500 µm						94 %
315 µm					99.5 %	69 %
180 µm				99.6 %	88 %	30 %
90 µm			99.7 %	88 %	21 %	8 %
40 µm	99.9 %	99.8 %	97 %	59 %	9 %	
32 µm	99.6 %	99.6 %				

### Particle Size Distribution (Laser-Granulometer)

	58500	58520	58540	58560	58580	58585
Content of particles less than 24 µm	97 %	98 %	91 %	47 %		
16 µm	88 %	91 %	83 %	43 %		
8 µm	66 %	70 %	64 %	34 %		
4 µm	45 %	44 %	42 %	22 %		
2 µm	26 %	25 %	21 %	13 %		

Mean particle diameter	4.5 µm	4.6 µm	5.1 µm	31 µm	130 µm	260 µm
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