



EDUARD MERKLE GMBH & CO. KG

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JURAPERLE MM**Chemical analysis of JURAPERLE**

CaCO ₃	98,1 %	
MgCO ₃	0,9 %	
Fe ₂ O ₃	0,08 %	
Al ₂ O ₃	0,35 %	
SiO ₂ (Silicates)	0,55 %	
Volatile matter (105°C)	(DIN EN ISO 787-2)	< 0,2 %
Loss on ignition	(DIN EN 459-2)	43,3 %
HCl-insoluble	(DIN 55 918)	0,8 %

Physical data

Loose bulk density		1,0 g/cm ³
Packed bulk density	(DIN EN ISO 787-11)	1,72 g/cm ³
Oil absorption	(DIN EN ISO 787-5)	11 g/100g
DOP absorption	(DIN EN ISO 787-5)	17 g/100g
Electrical conductivity (10%)	(DIN ISO 787-14)	47 µS/cm
pH value	(DIN EN ISO 787-9)	9,4
Density	(DIN EN ISO 787-10)	2,7 g/cm ³
Hardness (Mohs)		3
Refractive index		1,59

Optical properties

Brightness	(C/2 ⁰ , DIN 53 163)	79
Yellow-index	(DIN 6167)	16,9
CIELAB-Colour values	(DIN 6174)	L* 91,2 a* 1,4 b* 8,1

The above data are average values from numerous measurements, published without legal commitment.

Sieve analysis (DIN 53 734)

Percentage of particles finer than	180 μm	99,5 %
	90 μm	86 %
	40 μm	56 %

Particle size distribution (Laser-Granulometer)

Percentage of particles finer than	24 μm	50 %
	16 μm	42 %
	8 μm	34 %
	4 μm	22 %
	2 μm	13 %

Mean particle size: 24 μm

Particle size distribution curve of JURAPERLE MM (Laser-Granulometer Sympatec Helos R3, Air jet sieve)

