



EDUARD MERKLE GMBH & CO. KG

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JURAPERLE BMS**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		0,70 g/cm ³
Packed bulk density	(DIN EN ISO 787-11)	1,30 g/cm ³
Oil absorption	(DIN EN ISO 787-5)	16 g/100g
DOP absorption	(DIN EN ISO 787-5)	28 g/100g
Electrical conductivity (10%)	(DIN ISO 787-14)	42 μS/cm
pH value	(DIN EN ISO 787-9)	9,6
Density	(DIN EN ISO 787-10)	2,7 g/cm ³
Hardness (Mohs)		3
Refractive index		1,59

Optical properties

Brightness	(C/2°, DIN 53 163)	85
Yellow-index	(DIN 6167)	13
CIELAB-Colour values	(DIN 6174)	L* 94,1 a* 0,1 b* 7,2

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

Sieve analysis (DIN 53 734)

Percentage of particles finer than 40 µm 99,0 %

Particle size distribution (Laser-Granulometer)

Percentage of particles finer than	24 µm	98,5 %
	16 µm	96 %
	8 µm	82 %
	4 µm	55 %
	2 µm	34 %

Mean particle size: 4 µm

Particle size distribution curve of JURAPERLE BMS (Laser-Granulometer Sympatec Helos R3)

