



EDUARD MERKLE GMBH &amp; CO. KG

KALK-, TERRAZZO- UND STEINMAHLWERKE D-89143 Blaubeuren-Altental Tel. +49(0)73 44-96 01-0 Fax +49(0)73 44-96 01-11

**JURAPERLE BM****Chemical analysis of JURAPERLE**

CaCO <sub>3</sub>	98,1 %	
MgCO <sub>3</sub>	0,9 %	
Fe <sub>2</sub> O <sub>3</sub>	0,08 %	
Al <sub>2</sub> O <sub>3</sub>	0,35 %	
SiO <sub>2</sub> (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		0,61 g/cm <sup>3</sup>
Packed bulk density	(DIN EN ISO 787-11)	1,15 g/cm <sup>3</sup>
Oil absorption	(DIN EN ISO 787-5)	18 g/100g
DOP absorption	(DIN EN ISO 787-5)	34 g/100g
Electrical conductivity (10%)	(DIN ISO 787-14)	47 µS/cm
pH value	(DIN EN ISO 787-9)	9,6
Density	(DIN EN ISO 787-10)	2,7 g/cm <sup>3</sup>
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 99,9 %

**Particle size distribution (Laser-Granulometer)**

Percentage of particles finer than  
12 µm 99,2 %  
8 µm 94 %  
4 µm 65 %  
2 µm 36 %

Mean particle size: 3,1 µm

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

