



EDUARD MERKLE GMBH & CO. KG

KALK-, TERRAZZO- UND STEINMAHLWERKE 89143 Blaubeuren-Altental Tel. (073 44) 96 01-0 Fax (073 44) 96 01-11

ULMER WEISS MHM**Chemical analysis of ULMER WEISS**

CaCO ₃	99,2 %	
MgCO ₃	0,4 %	
Fe ₂ O ₃	0,035 %	
Al ₂ O ₃	0,1 %	
SiO ₂ (Silicates)	0,25 %	
Volatile matter (105°C)	(DIN EN ISO 787-2)	< 0,2 %
Loss on ignition	(DIN EN 459-2)	43,8 %
HCl-insoluble	(DIN 55 918)	0,3 %

Physical data

Loose bulk density		1,0 g/cm ³
Packed bulk density	(DIN EN ISO 787-11)	1,7 g/cm ³
Oil absorption	(DIN EN ISO 787-5)	12 g/100g
DOP absorption	(DIN EN ISO 787-5)	17 g/100g
Electrical conductivity (10%)	(DIN ISO 787-14)	43 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)	84
Yellow-index	(DIN 6167)	13
CIELAB-Colour values	(DIN 6174)	L* 93,4
		a* 0,2
		b* 6,6

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	99,6 %
	90 μm	88 %
	40 μm	59 %

Particle size distribution (Laser-Granulometer)

Percentage of particles finer than	24 μm	52 %
	16 μm	45 %
	8 μm	34 %
	4 μm	22 %
	2 μm	13 %

Mean particle size: 21 μm

Particle size distribution curve of ULMER WEISS MHM (Laser-Granulometer Sympatec Helos R3, Air jet sieve)

