



EDUARD MERKLE GMBH &amp; CO. KG

KALK-, TERRAZZO- UND STEINMAHLWERKE D-89143 Blaubeuren-Altental Tel. +49(0)7344-9601-0 Fax +49(0)7344-9601-11

**ULMER WEISS KMH****Chemical analysis of ULMER WEISS**

CaCO <sub>3</sub>	(DIN EN 15309)	98,5 %
MgCO <sub>3</sub>	(DIN EN 15309)	0,3 %
Fe <sub>2</sub> O <sub>3</sub>	(DIN EN 15309)	0,04 %
Al <sub>2</sub> O <sub>3</sub>	(DIN EN 15309)	0,1 %
SiO <sub>2</sub> (Silicates)	(DIN EN 15309)	0,3 %
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)	0,4 %

**Physical data**

Loose bulk density		0,8 g/cm <sup>3</sup>
Packed bulk density	(DIN EN ISO 787-11)	1,4 g/cm <sup>3</sup>
Oil absorption	(DIN EN ISO 787-5)	15 g/100g
DOP absorption	(DIN EN ISO 787-5)	27 g/100g
Electrical conductivity (10%)	(DIN EN ISO 787-14)	40 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		1,6

**Optical properties**

Brightness	(C/2 <sup>0</sup> , DIN 53163)	89,0	
Yellow-index	(DIN 6167)	10,0	
CIELAB-Colour values	(DIN 6174)	L*	95,4
		a*	0,3
		b*	5,2

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

**Sieve analysis (DIN 53 734)**

Percentage of particles finer than	90 µm	99,7 %
	40 µm	96,5 %

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

Percentage of particles finer than	24 µm	90 %
	16 µm	80 %
	8 µm	64 %
	4 µm	43 %
	2 µm	24 %

Mean particle size: 5,1 µm

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

