



PRODUCT DATA

TREMIN 283 Wollastonite

TREMIN 283 is the name for a surface-treated filler that is produced from natural wollastonite by iron-free grinding with subsequent air separation and coating with an organo-silicon compound.



The type of surface treatment is defined by the following three-letter code added to the characteristic grain data:

AST treated with Aminosilane

EST treated with Epoxisilane

MST treated with Methacrylsilane

TST treated with Methylsilane

VST treated with Vinylsilane

Typical grain sizes

TREMIN 283	010 AST	100 EST 100 MST	400 AST 400 EST 400 MST	600 AST 600 EST 600 MST 600 VST	800 AST 800 EST 800 TST
Upper grain size $d_{95\%}$ in μm	85	50	20	13	8
Medium grain size $d_{50\%}$ in μm	15	8	6	3,5	2,5
Mesh size in μm	Sieve Analysis Alpine-Luftstrahlsieb (Residue in weight %)				
63	3	0,1			
50	5	0,5			
40	12	2			
Grain diameter in μm	Particle Size Distribution Cilas Granulometer (Residue in volume %)				
64	12	3			
32	26	14	1		
16	47	32	9	2	
12	59	41	20	7	
8	67	50	35	18	5
6	74	58	48	31	12
4	80	65	59	47	28
2	89	80	76	69	60

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Typical physical properties

Density (DIN ISO 787-10)	2,85 g/ml
pH-Value (DIN ISO 10390)	10
Mohs hardness	4,5
Linear coefficient of thermal expansion α 20 - 300°C (DIN 51045)	$6 \cdot 10^{-6} \cdot K^{-1}$

Typical chemical analysis (weight %)

SiO ₂	50
Al ₂ O ₃	1
Fe ₂ O ₃	0,3
CaO	45
MgO	0,8
Na ₂ O + K ₂ O	0,2
Loss on ignition 1000° C DIN EN ISO 3262-7	3

Typical grain size related properties

TREMIN 283	010 AST	100 EST 100 MST	400 AST 400 EST 400 MST	600 AST 600 EST 600 MST 600 VST	800 AST 800 EST 800 TST
Bulk density (g/cm ³) DIN 53466	0,78	0,75	0,65	0,58	0,5
Spec. surface DIN 66132 - BET (m ² /g)	2	2	3	4	5
Oil absorption (g/100g) DIN ISO 787-5	23	24	25	26	27
Tristimulus values DIN 5033					
X	86	87	88	88	90
Y	86	87	88	88	90
Z	99	100	101	101	106

TREMIN 283 Wollastonite is produced from prepared natural raw minerals. All data are approximate values with tolerances depending on occurrences and production. They only serve as description and do not represent any warranty concerning the existence of specific characteristics.

Traces of coarser particles may be possible. It applies to the user to test the suitability for his purposes. If wanted, we are prepared to give further information on tolerances and on our experience in technical applications. Sales are subject to our sales and delivery conditions.