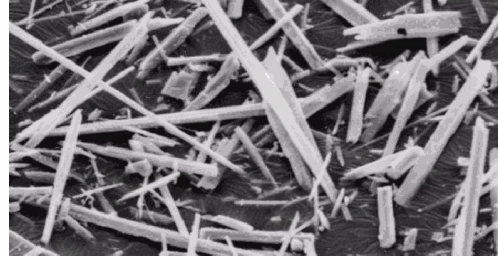


PRODUCT DATA

TREMIN 939 Wollastonite

TREMIN 939 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. TREMIN 939 is characterized by its distinct needle-structure.



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 Epoxysilan

FST treated with Alkylsilan

MST treated with Methacrylsilan

PST proprietary surface treatment

RST treated with Trimethylsilane

VST treated with Vinylsilane

ZST proprietary surface treatment

ESST treated with Epoxysilan spezial

MSST treated with Methacrylsilane spezial

USST treated with Aminosilan spezial

Typical grain sizes

TREMIN 939	100 ESST	300 AST	600 USST
	100 USST	300 EST	
Grain diameter in μm	100 MSST	300 MST	600 ESST
	100 PST	300 PST	
Sink speed equivalent diameter in μm	100 VST	300 RST	SediGraph 5100 (Residue in weight %)
	100 ZST	300 ZST	
Cilas-Granulometer (Residue in Vol.-%)			
	Model 920	Model 920	Model 715
64	7	6	3
32	9	8	6
12	51	45	29
6	77	75	63
2	93	94	92
25	6	3	0,5
20	15	7	1
10	56	40	18
8	66	54	32
6	77	69	51
4	86	83	72
2	94	93	88
1	96	95	94

HS-No.: 2530 9098

**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 939	100 ESST 100 USST 100 MSST 100 PST 100 VST	300 AST 300 EST 300 MST 300 PST 300 RST 300 ZST	600 USST 600 ESST
Bulk density (g/cm ³) DIN 53466	0,5	0,4	0,3
Spec. surface DIN 66132 - BET (m ² /g)	0,9	1,2	1,5
Oil absorption (g/100g) DIN ISO 787-5	37	40	42
Tristimulus values DIN 5033			
X	75	79	80
Y	76	80	82
Z	88	94	95

TREMIN 939 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.