Quarzwerke

PRODUCT DATA

TREMINEX 958
Nepheline Syenite

TREMINEX 958 is the name for a number of surface-treated fillers that are produced from natural Nepheline Syenite by iron-free grinding with subsequent air separation and coating with an organo-silicon compound. Due to its geological occurence Nepheline Syenite is free of crystalline silica.

EST treated with Epoxisilane
TST treated with Methysilane

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

Typical grain size

TREMINEX 958	012 EST	600 EST	700 TST	800 TST
Upper grain size $d_{95\ \%}$ in µm	64	10	9	7
Medium grain size $d_{50\%}$ in µm	15	4	3	2
Grain diameter in µm	**Particle Size Distribution Cilas Granulometer** (Residue in volume %)			
96	1			
64	5			
48	8			
32	22			
24	33			
16	47	1		
12	56	2	2	
8	65	15	10	2
6	72	27	21	8
4	79	47	41	23
3	84	58	53	37
2	90	74	69	57

HS-Nr.: 2529 3000

Nepheline Syenite is the raw material for the production of MINEX-fillers. Product data for MINEX 2 - MINEX 10 of Unimin Ltd. are available.

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Typical physical properties

Density (DIN ISO 787-10)	2,6 g/ml
pH-Value (DIN ISO 10390)	10
Mohs hardness	6
Linear coefficient of thermal expansion α 20 - 300°C (DIN 51045)	$6,5 * 10^{-6} * K^{-1}$
Refractive index	1,53

Typical chemical analysis (weight %)

SiO_2	60,8
Al_2O_3	23
Na_2O	10,4
K_2O	4,6
Fe_2O_3	0,08
CaO	0,05
MgO	0,03
Loss on ignition 1000° C DIN EN ISO 3262-7	0,7
Solubility in water (weight %)	0,2

Typical grain size related properties

TREMINEX 958	012 EST	600 EST	700 TST	800 TST
Bulk density (g/cm³) DIN 53466	1,0	0,6	0,6	0,5
Tapped bulk volume (ml/100g) DIN ISO 787-11	70	110	121	130
Spec. surface DIN 66132 - BET (m²/g)	1	3,5	4	6
Oil absorption (g/100g) DIN ISO 787-5	15	26	25	27
Tristimulus values DIN 5033				
X	86	88	88	88
Y	88	90	92	93
Z	101	105	98	99

TREMINEX 958 is produced from prepared natural raw minerals. All data are approximate values with tolerances depending on occurences 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.