



## PRODUCT DATA

# TREFIL 744 Aluminiumhydroxide

TREFIL 744 is the name for a number of surface-treated fillers that are produced from Aluminiumhydroxide.

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

**EST** treated with Epoxisilane  
**MST** treated with Methacrylsilane  
**PST** Proprietary surface treatment

Typical grain sizes			
TREFIL 744	010 PST 1	300 EST 300 MST	800 EST
Upper grain size $d_{95\%}$ in $\mu\text{m}$	29	35	4
Medium grain size $d_{50\%}$ in $\mu\text{m}$	5	12	2
Grain Diameter in $\mu\text{m}$	Particle Size Distribution Cilas-Granulometer (Residue in volume %)		
32	3	4	
16	26	30	
12	36	50	
8	45	70	
6	48	80	
4	54	87	5
2	71	95	50
1	86	97	80

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## Quarzwerke product data

## TREFIL 744 Aluminiumhydroxide

### Typical physical properties

Density (DIN ISO 787-10)	2,4 g/ml
pH-Value (DIN ISO 10390)	9
Linear coefficient of thermal expansion $\alpha$ 20 - 300°C (DIN 51045)	$15 \cdot 10^{-6} \cdot K^{-1}$

### Typical chemical analysis (weight %)

Al(OH) <sub>3</sub>	99,5
Fe <sub>2</sub> O <sub>3</sub>	0,1
Na <sub>2</sub> O	0,1
Loss on ignition 1000° C (DIN EN ISO 3262-7)	35
Moisture (DIN ISO 787-2) (Material fresh from production)	0,5

### Typical grain size related properties

<b>TREFIL 744</b>	<b>010 PST 1</b>	<b>300 EST 300 MST</b>	<b>800 EST</b>
Bulk density (g/cm <sup>3</sup> ) DIN 53466	0,6	0,8	0,4
Spec. surface DIN 66132 - BET (m <sup>2</sup> /g)	2,6	0,9	3,0
Oil absorption (g/100g) DIN ISO 787-5	12	21	27
Tristimulus values DIN 5033			
X	94	92	95
Y	95	94	97
Z	112	109	113

TREFIL Aluminiumhydroxide is produced from prepared synthetic 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.