

# FINNTALC M30E

## Functional Extender

### GENERAL INFORMATION

**FINNTALC M30E** is a hydrated magnesium silicate with chemical formula of  $Mg_3Si_4O_{10}(OH)_2$ .

**Finntalc grades** are purified in a cascade of multiple flotation cells. This process results in a tight definition of the talc composition, making this natural product similar to a synthetic chemical. In combination with a precisely controlled particle size distribution, this ensures exact reproducibility in formulations.

### APPLICATIONS

- Paints & Coatings: Matt architectural coatings with dark colours, general purpose industrial coatings with dry film thickness of 80 - 100  $\mu m$
- Adhesives
- Sealants
- Plastics: For automotive cabin and under the hood, appliances, pipes, powdering, profiles and furniture.
- Fertilizers

### KEY PROPERTIES

- Pure, lamellar, coarse particle size talc, stable colour, very hydrophobic, inert and soft.

### INCORPORATION

**FINNTALC M30E** can be used as a functional extender to achieve following results:

**Paints & Coatings:** Good barrier properties, good anti-corrosion properties, good reinforcement of paint film, good adhesion and sandability, matting of high PVC paint.

**Plastics:** Consistent colour, low abrasion and longer tool life.

### LEVELS OF USE

Typical use levels for paints and coatings applications are 10 - 30 % depending upon the application and the desired properties.

Typical use levels for talc in plastics depending upon the application. Please contact your local sales representative for advice.

### HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

### STORAGE RECOMMENDATIONS

Store dry.

### SHELF LIFE

**FINNTALC M30E** has a shelf life of 5 (five) years from the date of manufacture.

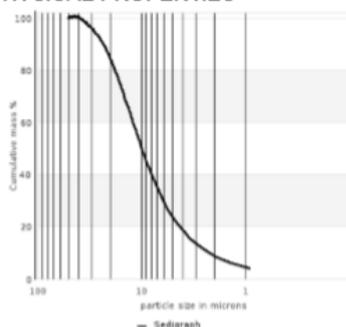
### QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 certificate, which guarantees that all operations are conducted according to the stipulated standards.

## FINNTALC M30E

<b>MINERALOGY</b>	Talc (Mg-Silicate)		97	%
	Traces of magnesite, dolomite and chlorite			
	CAS-No. 14807-96-6	EINECS-No. 238-877-9		
<b>CHEMICAL PROPERTIES</b>	MgO	XRF	31	%
	SiO <sub>2</sub>	XRF	60	%
	Al <sub>2</sub> O <sub>3</sub>	XRF	0.5	%
	Fe <sub>2</sub> O <sub>3</sub>	XRF	2.1	%
	Fe acid soluble	1mol/L HCl, 100°C	0.2	%
	Loss on ignition	DIN 51081/1000°C	6	%
	pH value	ISO 787/9	9.1	
<b>OPTICAL PROPERTIES</b>	Whiteness Ry	DIN 53163	80	%
	ISO brightness R457	ISO 2470	79	%
	CIE L*, a*, b*	DIN 6174	92/-0.45/1.23	
	Yellowness index	DIN 6167	2.7	
<b>PHYSICAL PROPERTIES</b>	Top cut D98	Sedigraph, ISO 13317	35	µm
	Median particle size D50	Sedigraph, ISO 13317	10	µm
	- Particles < 2 µm		10	%
	Fineness of grind	ISO 1524	100 (-)	µm
	Specific surface area	BET, ISO 4652	3	m <sup>2</sup> /g
	Oil absorption	ISO 787/5	30	g/100g
	Abrasion	Einlehner AT 1000	7	mg
	Hardness	Mohs	1	
	Tapped density	ISO 787/11	0.78	g/cm <sup>3</sup>
	Bulk density	DIN 53468	0.5	g/cm <sup>3</sup>
	Moisture	ISO 787/2	0.05	%

## PHYSICAL PROPERTIES



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