

# Finntalc M04SLC

## Functional Extender

### GENERAL INFORMATION

**FINNTALC M04SLC** is a hydrated magnesium silicate with chemical formula of  $Mg_3Si_4O_{10}(OH)_2$ .

**Finntalc grades** have 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

Plastics: for antiblock, automotive cabin, foam, film, nucleation, packaging, sheets and engineered plastics.

Paints and coatings: partial replacement of  $TiO_2$ , thin layer architectural and industrial coatings (dry film thickness of 10 - 20  $\mu m$ ), tinting pastes and inks.

### KEY PROPERTIES

Pure, lamellar talc, fine particle size with narrow particle size distribution. Stable color, very hydrophobic, inert, soft and dust-free.

### INCORPORATION

**FINNTALC M04SLC** can be used as a functional extender to achieve following results:

In plastics consistent color, low abrasion and longer tool life. Compacted grades are available for low dust generation and easy handling resulting in higher plastic compounding throughput

In paints and coatings booster of white opacity, partial replacement of  $TiO_2$  by efficient spacing effect, matting of low PVC paints, good barrier properties, finetuning of rheological properties and dust-free handling.

### LEVELS OF USE

Typical use levels for talc is 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

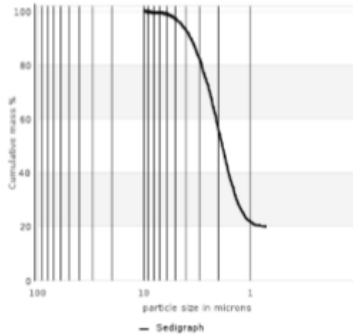
**FINNTALC M04SLC** has a shelf life of 5 (five) years from the date of manufacture.

### QUALITY ASSURANCE

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

# FINNTALC M04SLC

<b>MINERALOGY</b>	Talc (Mg-Silicate)		98	%
	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	61	%
	CaO	XRF	0.1	%
	Al <sub>2</sub> O <sub>3</sub>	XRF	0.4	%
	Fe <sub>2</sub> O <sub>3</sub>	XRF	2	%
	Fe acid soluble	1mol/L HCl, 100°C	0.1	%
	Loss on ignition	DIN 51081/1000°C	5.4	%
	pH value	ISO 787/9	9.1	
<b>OPTICAL PROPERTIES</b>	Whiteness Ry	DIN 53163	90	%
	ISO brightness R457	ISO 2470	89	%
	Refractive index	Mallard	1.57	
	CIE L*, a*, b*	DIN 6174	97/-0.3/0.6	
	Yellowness index	DIN 6167	1.4	
<b>PHYSICAL PROPERTIES</b>	Top cut D98	Sedigraph, ISO 13317	7	µm
	Median particle size D50	Sedigraph, ISO 13317	1.8	µm
	Specific surface area	BET, ISO 4652	11	m <sup>2</sup> /g
	Oil absorption	ISO 787/5	50	g/100g
	Abrasion	Einlehner AT 1000	3	mg
	Hardness	Mohs	1	
	Tapped density	ISO 787/11	0.8	g/cm <sup>3</sup>
	Bulk density	DIN 53468	0.7	g/cm <sup>3</sup>
	Moisture	ISO 787/2	0.2	%



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