

## FINNTALC M15SL

### Functional Extender

#### GENERAL INFORMATION

**FINNTALC M15SL** 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:** high whiteness architectural and industrial top coats with dry film thickness of 40-60  $\mu m$ .
- **Plastics:** For automotive cabin and under the hood, appliances, pipes, powdering, profiles, packaging, sheets and furniture.

#### KEY PROPERTIES

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

#### INCORPORATION

**FINNTALC M15SL** can be used as a functional extender to achieve following results:

**Paints & Coatings:** Good balance of opacity and whiteness, good barrier properties, excellent wet scrub resistance, good outdoor durability and anti-corrosion properties.

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

#### LEVELS OF USE

Typical use levels for paints and coatings applications are 5 - 20 % 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

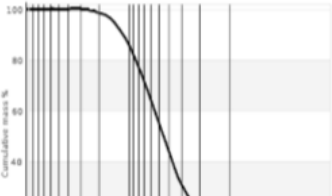
**FINNTALC M15SL** has a shelf life of 5 (five) years from the date of manufacture.

#### 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.

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## FINNTALC M15SL

<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	88	%				
	ISO brightness R457	ISO 2470	87	%				
	Refractive index	Mallard	1.57					
	CIE L*, a*, b*	DIN 6174	95/-0.3/0.8					
	Yellowness index	DIN 6167	1.4					
<b>PHYSICAL PROPERTIES</b>	Top cut D98	Sedigraph, ISO 13317	17.5	µm				
	Median particle size D50	Sedigraph, ISO 13317	4.5	µm				
	Fineness of grind	ISO 1524	50	µm				
	Specific surface area	BET, ISO 4652	6.5	m <sup>2</sup> /g				
	Oil absorption	ISO 787/5	40	g/100g				
	Abrasion	Einlehner AT 1000	3	mg				
	Hardness	Mohs	1					
								

*NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchasers will be subject to a separate agreement which will not incorporate this document.*

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