

FINNTALC M05N

Functional Extender

GENERAL INFORMATION

FINNTALC M05N 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:** thin layer (dry film thickness of 15 - 30 μm) architectural and industrial coatings, wood primers and stains, varnish, tinting pastes.
- **Plastics:** For antiblock, automotive bumpers, foam, film, nucleation.

KEY PROPERTIES

- Pure, lamellar fine talc with narrow particle size distribution and stable colour, very hydrophobic, inert and soft.

INCORPORATION

FINNTALC M05N can be used as a functional extender to achieve following results:

Paints & Coatings: Good barrier properties, good outdoor durability, good sandability, matting of low PVC paints, finetuning of rheological properties and efficient pigment spacer.

Plastics: High performance grade in plastics. Good impact properties. Compacted grades are available for low dust generation and easy handling resulting in higher compounding throughput.

LEVELS OF USE

Typical use levels for paints and coatings applications are 5 - 15 % 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

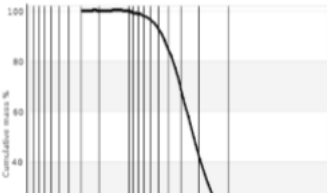
FINNTALC M05N has a shelf life of 5 (five) years from the date of manufacture.

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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MINERALOGY	Talc (Mg-Silicate)		97	%				
	Traces of magnesite, dolomite and chlorite							
	CAS-No. 14807-96-6	EINECS-No. 238-877-9						
CHEMICAL PROPERTIES	MgO	XRF	31	%				
	SiO ₂	XRF	60	%				
	CaO	XRF	0.1	%				
	Al ₂ O ₃	XRF	0.5	%				
	Fe ₂ O ₃	XRF	2.2	%				
	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					
OPTICAL PROPERTIES	Whiteness Ry	DIN 53163	86	%				
	ISO brightness R457	ISO 2470	84.9	%				
	Refractive index	Mallard	1.57					
	CIE L*, a*, b*	DIN 6174	94/-0.3/0.7					
	Yellowness index	DIN 6167	1.1					
PHYSICAL PROPERTIES	Top cut D98	Sedigraph, ISO 13317	10	µm				
	Median particle size D50	Sedigraph, ISO 13317	2.2	µm				
	Fineness of grind	ISO 1524	25	µm				
	Specific surface area	BET, ISO 4652	9.5	m ² /g				
	Oil absorption	ISO 787/5	48	g/100g				
	Abrasion	Einlehner AT 1000	5	mg				
	Hardness	Mohs	1					
								

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