ELEMENTIS

A global specialty chemicals company

Enhanced Performance Through Applied Innovation

FINNTALC M40

Functional Extender

GENERAL INFORMATION

FINNTALC M40 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 solids and high PVC heavy duty protective coatings with dry film thickness of 80 - 140 μm, matting of high PVC wall paints (dead-matt paints)
- Adhesives
- Sealants
- Plastics

KEY PROPERTIES

- Pure, lamellar, coarse particle size talc with reduced oil absorption value, stable colour, very hydrophobic, inert and soft.

INCORPORATION

FINNTALC M40 can be used as a functional extender to achieve following results:

Good barrier and good anti-corrosion properties at low VOC levels of thick film protective coatings, good adhesion and sandability, matting of dead-matt paints.

LEVELS OF USE

Typical use levels for paints and coatings applications are 5 - 40 % depending upon the application and the desired properties.

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 M40 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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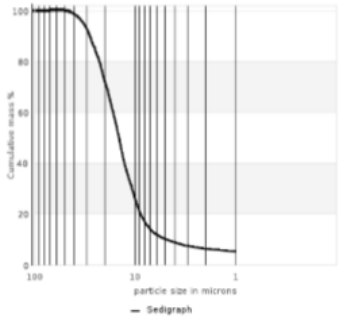
MINERALOGY	Talc (Mg-Silicate) Traces of magnesite, dolomite and chlorite CAS-No. 14807-96-6	EINECS-No. 238-877-9	97	%
CHEMICAL PROPERTIES	MgO	XRF	31	%
	SiO2	XRF	60	%
	CaO	XRF	0.05	%
	Al2O3	XRF	0.5	%
	Fe2O3	XRF	2.2	%
	Fe acid soluble	1mol/L HCl, 100°C	0.2	%
	Loss on ignition	DIN 51081/1000°C	6	%
	pH value	ISO 787/9	9.1	
OPTICAL PROPERTIES	Whiteness Ry	DIN 53163	80	%
	ISO brightness R457	ISO 2470	79	%
	Refractive index	Mallard	1.57	
	CIE L*, a*, b*	DIN 6174	91/-0.6/2.0	
	Yellowness index	DIN 6167	3.0	
PHYSICAL PROPERTIES	Top cut D98	Sedigraph, ISO 13317	38	µm
	Median particle size D50	Sedigraph, ISO 13317	15	µm
	Fineness of grind	ISO 1524	110	µm
	Sieve residue	ISO 787/7, 75 µm	< 0.1	%
	Specific surface area	BET , ISO 4652	2	m²/g
	Oil absorption	ISO 787/5	26	g/100g
	Abrasion	Einlehner AT 1000	5	mg
	Hardness	Mohs	1	
	Tapped density	ISO 787/11	1.1	g/cm³
	Bulk density	DIN 53468	0.7	g/cm³
	Moisture	ISO 787/2	0.05	%



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