

FINNTALC M65

Functional Extender

GENERAL INFORMATION

FINNTALC M65 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 protective coatings with dry film thickness of 80 - 120 μm .

KEY PROPERTIES

- Pure, lamellar, coarse particle size talc with controlled top-cut and reduced oil absorption value, low viscosity impact, stable colour, very hydrophobic, inert and soft.

INCORPORATION

FINNTALC M65 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.

LEVELS OF USE

Typical use levels for paints and coatings applications are 15 - 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 M65 has a shelf life of 5 (five) years from the date of manufacture.

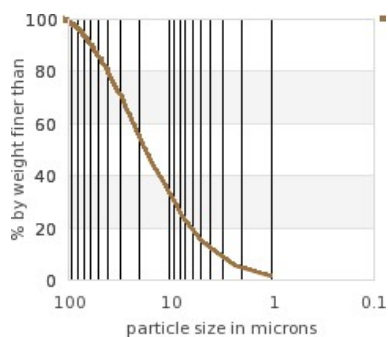
QUALITY ASSURANCE

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)	96	%
	Residue magnesite and chlorite		
	CAS-No. 14807-96-6	EINECS-No. 238-877-9	
CHEMICAL PROPERTIES	MgO	31	%
	SiO ₂	60	%
	Al ₂ O ₃	0.5	%
	FeO total	2.2	%
	Fe acid soluble (1mol/L HCl, 100°C)	0.2	%
	Loss on ignition (DIN 51081/1000°C)	6.3	%
	pH value (ISO 787/9)	9.1	%
OPTICAL PROPERTIES	Brightness Ry (DIN 53163)	80	%
	CIE L*, a*, b* (DIN 6174)	91.5/-0.4/1.2	
	Yellowness Index (DIN 6167)	1.9	%
PHYSICAL PROPERTIES	Particle size distribution Sedigraph 51XX		
	- Top cut	42	µm
	- Median particle size (d50%)	13.5	µm
	- Particles < 2 µm	5	%
	Specific surface area (BET, ISO 4652)	2.5	m ² /g
	Oil absorption (ISO 787/5)	28	g/100g
	Hardness (Mohs)	1	
	Packed bulk density (ISO 787/11)	0.8	g/cm ³
	Bulk density (DIN 53468)	0.6	g/cm ³
	Moisture (ISO 787/2)	0.2	%



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