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.



FINNTALC M40

Enhanced Performance Through Applied Innovation

Talc (Mg-Silicate) Traces of magnesite, dolo CAS-No. 14807-96-6	mite and chlorite EINECS-No. 238-877-9	97	%
MgO SiO2 CaO Al2O3 Fe2O3 Fe acid soluble Loss on ignition pH value	XRF XRF XRF XRF 1mol/L HCl, 100°C DIN 51081/1000°C ISO 787/9	31 60 0.05 0.5 2.2 0.2 6 9.1	% % % %
Whiteness Ry ISO brightness R457 Refractive index CIE L*, a*, b* Yellowness index	DIN 53163 ISO 2470 Mallard DIN 6174 DIN 6167	80 79 1.57 91/-0.6/2.0 3.0	% %
Top cut D98 Median particle size D50 Fineness of grind Sieve residue Specific surface area Oil absorption Abrasion Hardness Tapped density Bulk density Maieture	Sedigraph, ISO 13317 Sedigraph, ISO 13317 ISO 1524 ISO 787/7, 75 µm BET , ISO 4652 ISO 787/5 Einlehner AT 1000 Mohs ISO 787/11 DIN 53468	38 15 110 < 0.1 2 26 5 1 1.1 0.7	μm μm % m²/g g/100g mg g/cm³ g/cm³ %
	Traces of magnesite, dolor CAS-No. 14807-96-6 MgO SiO2 CaO Al2O3 Fe2O3 Fe acid soluble Loss on ignition pH value Whiteness Ry ISO brightness R457 Refractive index CIE L*, a*, b* Yellowness index Top cut D98 Median particle size D50 Fineness of grind Sieve residue Specific surface area Oil absorption Abrasion Hardness Tapped density	Traces of magnesite, dolomite and chloriteCAS-No. 14807-96-6EINECS-No. 238-877-9MgOXRFSiO2XRFCaOXRFAl2O3XRFFe2O3XRFFe acid soluble1mol/L HCl, 100°CLoss on ignitionDIN 51081/1000°CpH valueISO 787/9Whiteness RyDIN 53163ISO brightness R457ISO 2470Refractive indexMallardCIE L*, a*, b*DIN 6174Yellowness indexDIN 6167Top cut D98Sedigraph, ISO 13317Median particle size D50Sedigraph, ISO 13317Fineness of grindISO 787/5, 54Sieve residueISO 787/5Oil absorptionISO 787/5AbrasionEinlehner AT 1000HardnessMohsTapped densityISO 787/11Bulk densityDIN 53468	Traces of magnesite, dolomite and chloriteTraces of magnesite, dolomite and chloriteCAS-No. 14807-96-6EINECS-No. 238-877-9MgOXRF31SiO2XRF0.05Al2O3XRF0.5Fe2O3XRF2.2Fe acid soluble1mol/L HCl, 100°C0.2Loss on ignitionDIN 51081/1000°C6pH valueISO 787/99.1Whiteness RyDIN 5316380ISO brightness R457ISO 247079Refractive indexMallard1.57CIE L*, a*, b*DIN 61673.0Top cut D98Sedigraph, ISO 1331738Median particle size D50Sedigraph, ISO 1331715Fineness of grindISO 787/7, 75 µm< 0.1Sieve residueISO 787/526AbrasionEinlehner AT 10005HardnessMohs1Tapped densityISO 787/111.1Bulk densityDIN 534680.7

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