

FINNTALC M10E

Functional Extender

GENERAL INFORMATION

FINNTALC M10E 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: semi-gloss architectural coatings, industrial coatings with dry film thickness of 30 - 40 μm .
- Plastics: For automotive cabin, bumpers and under the hood, pipes and profiles.

KEY PROPERTIES

- Pure, lamellar talc, fine particle size, sharp top-cut, stable colour, very hydrophobic, inert and soft.

INCORPORATION

FINNTALC M10E can be used as a functional extender to achieve following results:

Paints & Coatings: Good barrier properties, good outdoor durability, good sandability, adjustment of gloss, finetuning of rheological properties.

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 M10E has a shelf life of 5 (five) years from the date of manufacture.

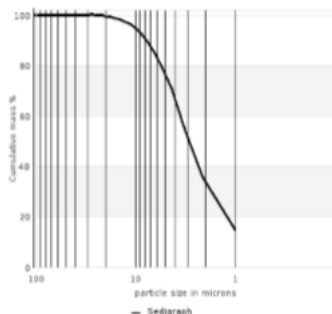
QUALITY ASSURANCE

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 M10E

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	85	%
	ISO brightness R457	ISO 2470	84	%
	CIE L*, a*, b*	DIN 6174	94/-0.3/0.8	
	Yellowness index	DIN 6167	1.3	
PHYSICAL PROPERTIES	Top cut D98	Sedigraph, ISO 13317	12	µm
	Median particle size D50	Sedigraph, ISO 13317	2.8	µm
	Fineness of grind	ISO 1524	30	µm
	Sieve residue	ISO 787/7, 45 µm	0.003	%
	Specific surface area	BET, ISO 4652	8.0	m ² /g
	Oil absorption	ISO 787/5	46	g/100g
	Abrasion	Einlehner AT 1000	5	mg
	Hardness	Mohs	1	



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