

FINNTALC M15 ULM

Functional Extender

GENERAL INFORMATION

FINNTALC M15 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. **Finntalc M15ULM is heat-treated to ensure ultra-low microbiological contamination.**

APPLICATIONS

- Paints & Coatings: architectural coatings with zero or low biocide content (high hygienic coatings).

KEY PROPERTIES

- Pure, lamellar, medium particle size talc, **heat-treated**, stablecolour, very hydrophobic, inert and soft.

INCORPORATION

FINNTALC M15 ULM can be used as a functionalextender to achieve following results:

Paints & Coatings: Good barrier properties, excellent wet scrub resistance, balanced optical properties, good outdoor durability, good anti-corrosion properties, good sandability and adhesion, enables use of lowered biocide content.

LEVELS OF USE

Typical use levels for paints and coatings applications are 5 - 30 % 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 M15 ULM has a shelf life of 5 (five) yearsfrom the date of manufacture.

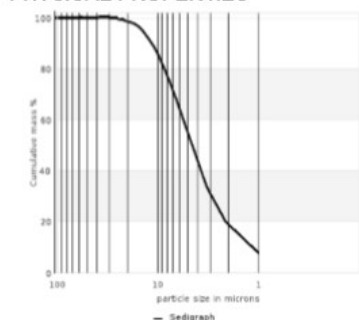
QUALITY ASSURANCE

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 M15 ULM

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	2.1	%	
	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	84	%	
	ISO brightness R457	ISO 2470	83	%	
	Refractive index	Mallard	1.57		
	CIE L*, a*, b*	DIN 6174	93/-0.3/1.2		
	Yellowness index	DIN 6167	1.6		
PHYSICAL PROPERTIES	Top cut D98	Sedigraph, ISO 13317	17	µm	
	Median particle size D50	Sedigraph, ISO 13317	4.5	µm	
	Fineness of grind	ISO 1524	45	µm	
	Specific surface area	BET, ISO 4652	6	m ² /g	
	Oil absorption	ISO 787/5	36	g/100g	
	Abrasion	Einlehner AT 1000	5	mg	
	Hardness	Mohs	1		
	Tapped density	ISO 787/11	0.5	g/cm ³	
	Bulk density	DIN 53468	0.3	g/cm ³	
	Moisture	ISO 787/2	0.1	%	
		Total bacteria content	European Pharmacopeia 7.5	< 100	CFU/g
		Yeast and Molds	European Pharmacopeia 7.5	< 50	CFU/g



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