

FINNTALC M03

Functional Extender

GENERAL INFORMATION

FINNTALC M03 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: thin layer coatings (dry film thickness < 15 μm), tinting pastes and printing inks.
- Plastics: Recommended for antiblock, automotive bumpers, foaming and nucleation.

KEY PROPERTIES

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

INCORPORATION

FINNTALC M03 can be used as a functional extender to achieve following results:

Paints & Coatings: Good barrier properties, efficient pigment spacer, matting of low PVC paints, adjustment of rheological properties.

Plastics: Very fine talc, excellent to use as antiblock agent and as a nucleator. Nice grade to use in controlling the cell density in foams. 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 3 - 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 M03 has a shelf life of 5 (five) years from the date of manufacture.

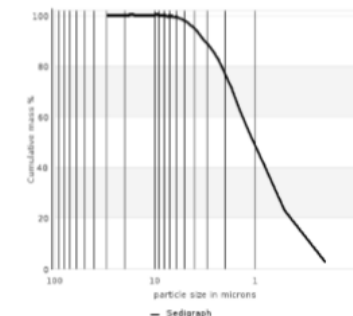
QUALITY ASSURANCE

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 M03

MINERALOGY	Talc (Mg-Silicate)		96	%
	Traces of magnesite, dolomite and chlorite			
CHEMICAL PROPERTIES	CAS-No. 14807-96-6	EINECS-No. 238-877-9		
	MgO	XRF	31	%
	SiO ₂	XRF	59	%
	CaO	XRF	0.05	%
	Al ₂ O ₃	XRF	0.8	%
	Fe ₂ O ₃	XRF	2.6	%
	Fe acid soluble	1mol/L HCl, 100°C	0.2	%
	Loss on ignition	DIN 51081/1000°C	6.1	%
	pH value	ISO 787/9	9.1	
	OPTICAL PROPERTIES	Whiteness Ry	DIN 53163	87
ISO brightness R457		ISO 2470	86	%
Refractive index		Mallard	1.57	
CIE L*, a*, b*		DIN 6174	95/-0.3/0.4	
Yellowness index		DIN 6167	1.0	
PHYSICAL PROPERTIES	Top cut D98	Sedigraph, ISO 13317	5	µm
	Median particle size D50	Sedigraph, ISO 13317	1.1	µm
	Fineness of grind	ISO 1524	17	µm
	Specific surface area	BET, ISO 4652	13	m ² /g
	Oil absorption	ISO 787/5	55	g/100g
	Abrasion	Einlehner AT 1000	5	mg
	Hardness	Mohs	1	



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North America
Elementis
469 Old Trenton Road
East Windsor
NJ 08512, USA
Tel.: +1 609 443 2500
Fax: +1 609 443 2422

Europe
Elementis UK Ltd.
c/o Elementis GmbH
Stolberger Strasse 370
50933 Cologne, Germany
Tel.: +49 221 2923 2066
Fax: +49 221 2923 2011

Elementis Minerals B.V.
Kajuitweg 8
NL-1041 AR Amsterdam
The Netherlands
Tel.: +31 20 4487 448

Asia
Deuchem (Shanghai) Chemical Co., Ltd.
99, Lianyang Road
Songjiang Industrial Zone
Shanghai, China 201613
Tel.: +86 21 5774 0348
Fax: +86 21 5774 3563