

FINNTALC M50

Functional Extender

GENERAL INFORMATION

FINNTALC M50 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 $> 150 \mu m$, matting dead-matt wall paints.

KEY PROPERTIES

- Pure, lamellar, coarse particle size talc with reduced oil absorption value, stable colour, very hydrophobic, inert and soft.

INCORPORATION

FINNTALC M50 can be used as a functional extender to achieve following results:

Good barrier and good anti-corrosion properties at low VOC levels of highly filled 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 M50 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)	95	%
Traces of magnesite, dolomite and chlorite		

CHEMICAL PROPERTIES

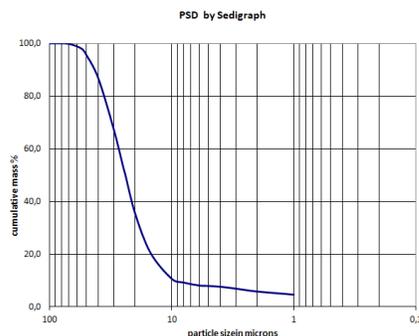
CAS-No. 14807-96-6	EINECS-No. 238-877-9		
MgO	XRF	32	%
SiO ₂	XRF	59	%
Al ₂ O ₃	XRF	0.8	%
Fe ₂ O ₃	XRF	2.3	%
Fe acid soluble	1mol/L HCl, 100°C	0.3	%
Loss on ignition	DIN 51081/1000°C	6.7	%
pH value	ISO 787/9	9.1	

OPTICAL PROPERTIES

Whiteness Ry	DIN 53163	75.5	%
ISO brightness R457	ISO 2470	73.0	%
CIE L*, a*, b*	DIN 6174	89.5/-0.6/2.0	
Yellowness index	DIN 6167	3.0	

PHYSICAL PROPERTIES

Top cut D98	Sedigraph, ISO 13317	55	µm
Median particle size D50	Sedigraph, ISO 13317	24	µm
Particles < 2 µm		6	%
Fineness of grind	ISO 1524	140	µm
Specific surface area	BET, ISO 4652	1.5	m ² /g
Oil absorption	ISO 787/5	22	g/100g
Abrasion	Einlehner AT 1000	7	mg
Hardness	Mohs	1	
Tapped density	ISO 787/11	1.2	g/cm ³
Bulk density	DIN 53468	1.0	g/cm ³
Moisture	ISO 787/2	0.05	%



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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

Mondo Minerals B.V.
Kajuitweg 8
NL-1041 AR Amsterdam
The Netherlands
Tel.: +31 20 4487 453

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