

MICROTALC IT Extra

Functional Extender

GENERAL INFORMATION

MICROTALC IT Extra 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

- Super high whiteness thin layer thickness coatings, TiO_2 -spacer, whiteness booster of coatings, tinting pastes and inks.

KEY PROPERTIES

- Pure, lamellar and super high white talc with fine particle size, very hydrophobic, inert and soft.

INCORPORATION

MICROTALC IT Extra can be used as a functional extender to achieve following results:

Booster of white opacity, partial replacement of TiO_2 by efficient spacing effect, matting of low PVC paints, good barrier properties, finetuning of

LEVELS OF USE

Typical use levels are 5 - 10 % 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

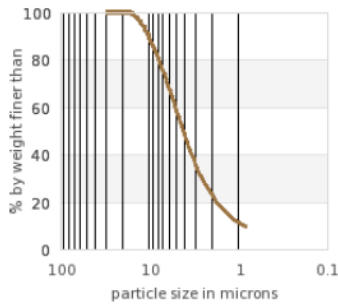
MICROTALC IT Extra has a shelf life of 5 (five) years from the date of manufacture.

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

MICROTALC IT Extra

MINERALOGY	Talc (Mg-Silicate)	97	%
	Residue magnesite and chlorite		
	CAS-No. 14807-96-6	EINECS-No. 238-877-9	
CHEMICAL PROPERTIES	MgO	31	%
	SiO ₂	60	%
	Al ₂ O ₃	0.5	%
	FeO total	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	Brightness Ry (DIN 53163)	83	%
	Iso-Brightness (R457)	83	%
	CIE L*, a*, b* (DIN 6174)	93/-0.3/1.3	
	Yellowness Index (DIN 6167)	2.3	%
PHYSICAL PROPERTIES	Particle size distribution	Sedigraph 51XX	
	Sedigraph 51XX		
	- Top cut (d98%)	17	µm
	- Median particle size (d50%)	4.5	µm
	- Particles < 2 µm	18	%
	Hegman fineness (ISO 1524)	45 (4+)	
	Specific surface area (BET , ISO 4652)	6	m ² /g
	Oil absorption (ISO 787/5)	41	g/100g
	Abrasion (Einlehner AT 1000)	5	mg
	Hardness (Mohs)	1	
	Packed bulk density (ISO 787/11)	0.5	g/cm ³
	Bulk density (DIN 53468)	0.3	g/cm ³
	Moisture (ISO 787/2)	0.06	%



NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchasers will be subject to a separate agreement which will not incorporate this document.

© Copyright 2019, Elementis Specialties, Inc. All rights reserved. Copying and/or downloading of this document or information therein for republication is not allowed unless prior written agreement is obtained from Elementis Specialties, Inc.

© Trademark of Mondo Minerals BV.

V01 Feb. 2019

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