

# MICROTUFF® 1000 talc

## Technical Grade Talc - Plastics

Specialty Minerals Inc. (SMI) MICROTUFF® 1000 talc technical grade talc products are produced by Barretts Minerals Inc., from an extensive deposit of high quality Montana talc ore. SMI's MICROTUFF® 1000 talc (Magnesium Silicate) is manufactured to a median particle size of 1.2 microns with a top size of less than 15 Microns. The material is surface treated with a low level (less than 1%) of a proprietary surface treatment that Improves dispersion, of the powder in the resin melt and increases the heat & mechanical properties and color of the final polymer composite. For applications where food contact is needed MICROTUFF® F talc should be used. MICROTUFF® 1000 talc is designed for use in a number of applications including: thermoset and thermoplastic polymers, adhesives and sealants and other numerous industrial applications. MICROTUFF® talc products are cost effective, chemically inert, platy, high brightness talcs used primarily for reinforcement, improved weatherability and general improvements in mechanical properties.

Typical Properties	MICROTUFF® 1000 Talc
Median Particle Size (microns)	1.2
Hegman Fineness (minimum)	6.0
Retention, 325 Mesh, %	----
Dry Brightness (Hunter Y, Rd Value)	89
Oil Absorption	52
Bulk Density (pounds/ft <sup>3</sup> )	7.5
(grams/cc)	0.12
Tap Density (pounds/ft <sup>3</sup> )	15.5
(grams/cc)	0.25
pH	8.9
Specific Gravity	2.8

### Typical Chemical Composition

Silicon Dioxide	SiO <sub>2</sub>	61%
Magnesium Oxide	MgO	31%
Calcium Oxide	CaO	<0.5%
Aluminum Oxide	Al <sub>2</sub> O <sub>3</sub>	<2.0%
Iron As	Fe <sub>2</sub> O <sub>3</sub>	<1.3%
Loss on Ignition	L.O.I.	7.0%
Moisture %	H <sub>2</sub> O	<0.5%
(% weight loss @ 110° C)		

All products are sold on the understanding that the user is solely responsible for determining their suitability for the intended use. All information given and recommendations made herein are based upon our research and are believed to be accurate, but no guarantee, either expressed or implied, is made with respect thereto or with respect to the infringement of any patent. SMI MAKES NO WARRANTY OF MERCHANTABILITY OR SUITABILITY FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH ANY SALE OF THE PRODUCTS DESCRIBED HEREIN. Inconsistent terms and conditions contained in Buyer's purchase order shall not be binding on SMI/BMI unless reflected in writing signed by SMI/BMI's representative. This information is not to be copied, used in evidence, released for publication or public distribution without written permission from Specialty Minerals Inc./Barretts Minerals Inc.

#### Sales Offices

Bethlehem, PA 1-610-997-8394  
 Barretts, MT 800-336-9008  
 www.mineralstech.com

MICROTUFF® is a trademark of Minerals Technologies Inc. or its subsidiaries  
 ©Specialty Minerals Inc. 7/2006