

MICROTUFF® talc

Technical Grade Talc - Plastics

Specialty Minerals Inc. (SMI) MICROTUFF® talc technical grade talc products are produced by Barretts Minerals Inc., from an extensive deposit of high quality Montana talc ore. SMI's MICROTUFF® talc (Magnesium Silicate) products are manufactured with a very "clean" top size and narrow particle size distribution, when compared to products with similar median PSDs. They are designed for use in a number of applications including: thermoset and thermoplastic polymers, adhesives and sealants, caulks 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® Technical Grade Talcs	
	111	191
Median Particle Size (microns)	1.1	1.8
Hegman Fineness (minimum)	6.5	6.0
Retention, 325 Mesh, %	----	----
Dry Brightness (Hunter Y, Rd Value)	89	88.5
Oil Absorption	52	49
Bulk Density (pounds/ft ³)	7.5	9.5
(grams/cc)	0.12	0.15
Tap Density (pounds/ft ³)	15.5	22.3
(grams/cc)	0.25	0.36
pH	8.8	8.8
Specific Gravity	2.8	2.8

Typical Chemical Composition		
Silicon Dioxide	SiO ₂	61%
Magnesium Oxide	MgO	31%
Calcium Oxide	CaO	<0.5%
Aluminum Oxide	Al ₂ O ₃	1%
Iron As	Fe ₂ O ₃	<1.3%
Loss on Ignition	L.O.I.	5.5%
Moisture %	H ₂ O	<0.5%
(% weight loss @ 110° C)		

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