



## MICROTALC® talc

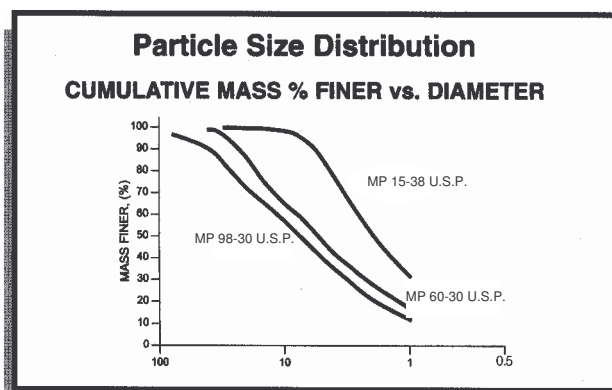
### U.S.P & Bacteria Controlled Talcs

Specialty Minerals Inc. (SMI) MICROTALC® talc U.S.P. and Bacteria Controlled talc produced by Barretts Minerals Inc., from an extensive deposit of high quality Montana talc (Magnesium Silicate) ore. Our MICROTALC® talc U.S.P. talc products are certified to meet all of the United States Pharmacopoeia requirements for chemical and microbiological purity. In addition, SMI's MICROTALC® talc U.S.P. and Bacteria Controlled (BC) talcs conform to the requirements of the Cosmetic Manufacturers Association for maximum limits on arsenic, lead and heavy metals.

MICROTALC® U.S.P. and BC talcs are designed for medical, drug and cosmetic formulations, both powder and lotion. Talc's softness, oleophilic surface and fragrance retention characteristics make them ideal materials for these applications. MICROTALC® MP 15-38 U.S.P. talc is used primarily as an ingredient in drug and OTC tableting formulations where it acts as a binder and mold release agent. MICROTALC® MP 60-30 U.S.P. and MP 98-30 U.S.P. talcs are used in cosmetic and medicinal applications as a dusting powder, a solid diluent or as a solid component in lotions.

Typical Properties	MP 15-38 U.S.P.	MP 60-30 U.S.P.	MP 98-30 U.S.P.
Median Particle Size (microns)	2.0	5.5	6.5
Hegman Fineness (minimum)	5.75	-	-
Retention, 325 Mesh, %	-	2.3	-
Retention, 200 Mesh, %	-	-	3.5
Dry Brightness (Hunter Y, Rd Value)	89	87	86
Bulk Density (pounds/ft <sup>3</sup> )	12	22	26
(grams/cc)	0.19	0.37	0.42
Tap Density (pounds/ft <sup>3</sup> )	33	50	52
(grams/cc)	0.53	0.80	0.84
pH	8.8	8.8	8.8
Specific Gravity	2.8	2.8	2.8
<b>U.S.P. Certification Limits</b>		<b>Cosmetics Manufacturers Association Limits</b>	
Loss on Ignition	6.5% Maximum	Lead (Pb)	10 ppm Maximum
Acid Solubles	2% Maximum	Arsenic (As)	3 ppm Maximum
Water Solubles	0.1% Maximum	Heavy Metals	40 ppm Maximum
Water Soluble Iron	Nil		
Microbiological Limit	500 per gram		

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>	1%
Iron As	Fe <sub>2</sub> O <sub>3</sub>	<1.3%
Loss on Ignition	L.O.I.	5.5%
Moisture %	H <sub>2</sub> O	<0.5%
(% weight loss @ 110° C)		



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#### Sales Offices

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