

Specialty Minerals Inc. MICROTALC® U.S.P. talc products are produced by Barretts Minerals Inc., a wholly owned subsidiary of SMI, from an extensive deposit of high quality Montana talc (Magnesium Silicate) ore. SMI's MICROTALC® 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® U.S.P. talcs conform to the requirements of the Cosmetic Manufacturers Association for maximum limits on Arsenic, Lead and Heavy Metals.

MICROTALC® U.S.P. 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 the aforementioned application. MICROTALC® MP 2500 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 50-30 U.S.P. talc is used in cosmetic and medicinal applications as a dusting powder, a solid diluent or as a solid component in lotions and foods.

Physical Properties (typical)

	MP 2500 U.S.P.	MP 50-30 U.S.P.
Median Particle Size (microns)	2.0	5.5
Hegman Fineness (minimum)	5.75	-
Retention, 325 Mesh, %	-	2.3
Dry Brightness (Hunter Y, Rd Value)	89	89
Bulk Density (pounds/ft ³)	12	22
(grams/cc)	0.19	0.37
Tap Density (pounds/ft ³)	33	50
(grams/cc)	0.53	0.80
pH	8.8	8.8
Specific Gravity	2.8	2.8

U.S.P. Certification Limits

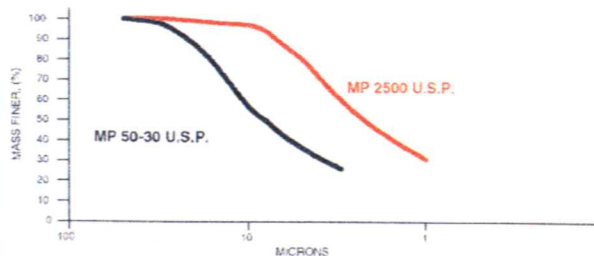
Loss on Ignition	6.5% Maximum
Acid Solubles	2% Maximum
Water Solubles	0.1% Maximum
Water Soluble Iron	Nil
Microbiological Limit	500 per gram

Cosmetic Manufacturers Association Limits

Lead (Pb)	10 ppm Maximum
Arsenic (As)	3 ppm Maximum
Heavy Metals	40 ppm Maximum

Particle Distribution Curve

CUMULATIVE MASS % FINER vs. DIAMETER



Chemical Composition (typical)

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%

Sales Office

Bethlehem, PA (800) 801-1031

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