



Your Technology Resource[®]

ULTRATALC[®] U.S.P. Cosmetic talcs

Specialty Minerals Inc. (SMI) ULTRATALC[®] U.S.P. Cosmetic talcs are designed specifically for cosmetic dusting powder formulations. The controlled particle size, particle distribution and high bulk density facilitates speed in packaging while having minimal setting due to entrapped air. It can also be used in cosmetic and medicinal applications as an excipient or as a solid component in lotions.

ULTRATALC[®] U.S.P. Cosmetic talcs are produced by BMI, a wholly owned subsidiary of SMI, at facilities in Mt. Vernon, IN and Wellsville, OH. This talc is certified to meet all of the United States Pharmacopoeia requirements for chemical purity and the Cosmetic Manufacturers Association limits for arsenic, lead, and heavy metals. In addition, BMI's ULTRATALC[®] Cosmetic talc is certified to a more restrictive Microbiological limit of 100 cfu per gram compared to the required USP limit of 500 cfu per gram.

Product Description Typical Values	ULTRATALC[®] 2000 USP	ULTRATALC[®] 3000 USP	ULTRATALC[®] 4000 USP	ULTRATALC[®] 5000 USP
Median Particle Size (microns)	16	8	3.8	2.5
Micromeritics Sedigraph 5100				
@ 98 (microns)	45	25	17	8
@ 10% (microns)	8	1.5	1	0.5
Dry Brightness				
Hunter Y, Rd value	91	94	95	96
Oil Absorption (gm oil/100 gm filler)				
ASTM – D 281	20	30	38	48
Bulk Density				
Loose (lbs/ft ³)	35	23	16	14
Tapped (lbs/ft ³) (USP)	77	64	52	37

Typical Chemical Composition		
Silicon Dioxide	SiO ₂	60%
Magnesium Oxide	MgO	30%
Calcium Oxide	CaO	<1%
Aluminum Oxide	Al ₂ O ₃	<1%
Iron As	Fe ₂ O ₃	<1%
Loss on Ignition	L.O.I.	6.0%
Moisture %	H ₂ O	<0.2%

<u>U.S.P. Certification Limits</u>	
Loss on Ignition	6.5% Maximum
Acid Solubles	2% Maximum
Water Solubles	0.1% Maximum
Water Soluble Iron	Nil
Microbiological Limit	100 cfu per gram
(More restrictive than USP limit of 500 cfu per gram)	
<u>USP & Cosmetic Manufacturers Association Limits</u>	
Lead (Pb)	10 ppm Maximum
Arsenic (As)	3 ppm Maximum
Heavy Metals	40 ppm Maximum

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.

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