

TALCRON® talc

Paint Grade Talcs

Specialty Minerals Inc. (SMI) TALCRON® talc products are produced by Barretts Minerals Inc., from an extensive deposit of high quality Montana talc ore. SMI's TALCRON® talc (Magnesium Silicate) products are designed for use in interior and exterior architectural coatings as well as industrial primers and topcoats. The chemically inert nature of the talc surface improves the weatherability of talc containing coatings. The hydrophobic nature of the talc surface contributes to rheological properties (anti-sag, leveling and brushability) and gloss and sheen control. Additionally, due to the softness of talc, wear on processing equipment is reduced.

This versatile line of high brightness, platy talcs is available in a full range of particle sizes to satisfy the requirements of the coatings formulator.

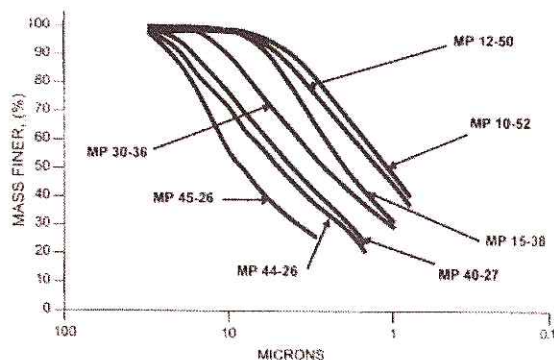
Typical Properties	TALCRON® Paint Grade Talcs						
	MP 10-52	MP 12-50	MP 15-38	MP 30-36	MP 40-27	MP 44-26	MP 45-26
Median Particle Size (microns)	1.0	1.2	2.0	3.0	4.0	5.0	8.0
Hegman Fineness (minimum)	6.5	6.0	5.75	5.0	3.75	3.0	2.0
Retention, 325 Mesh, %	-	-	-	-	-	0.6	0.9
Dry Brightness (Hunter Y, Rd Value)	89	88.5	89	87	88	87	85
Oil Absorption	55	53	42	34	30	28	26
Bulk Density (pounds/ft ³)	6.4	7.5	12	16	20.5	21	23
(grams/cc)	0.10	0.12	0.19	0.26	0.33	0.34	0.37
Tap Density (pounds/ft ³)	22	22.6	33	34.7	46	49	51
(grams/cc)	0.35	0.36	0.53	0.56	0.74	0.79	0.82
pH	8.8	8.8	8.8	8.8	8.8	8.8	8.8
Specific Gravity	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Bulking Value	23.3	23.3	23.3	23.3	23.3	23.3	23.3
Wt/solid gal. (lbs.)							

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 (% weight loss @ 110° C)	H ₂ O	<0.5%

Particle Size Distribution

CUMULATIVE MASS % FINER vs. DIAMETER



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