Specialty MINERALS

TALCRON® Montana talc

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 can be used in a wide variety of industrial applications including; plastics & rubber, paint & coatings and adhesives & sealants. The platy morphology of the talc particles yields a material that improves the stiffness and impact resistance in polymers applications. The chemically inert nature of the talc surface improves the weatherability of talc products. The hydrophobic nature of the talc surface contributes to a reduction in moisture pickup in a number of applications. Additionally, due to the softness of talc, wear on processing equipment is reduced.

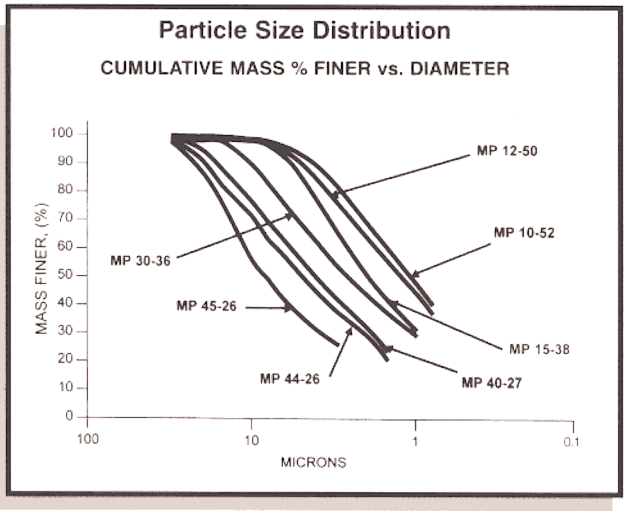
This versatile line of high brightness, platy talcs is available in a full range of particle sizes to satisfy the requirements of the most discriminating formulator.

Typical Properties — **TALCRON® 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 Wt/solid gal. (lbs.)	23.3	23.3	23.3	23.3	23.3	23.3	23.3

Chemical Composition (typical)

Silicon Dioxide	SiO_2	61%
Magnesium Oxide	MgO	31%
Calcium Oxide	CaO	<0.5%
Aluminum Oxide	Al_2O_3	1%
Iron As	Fe_2O_3	<1.3%
Loss on Ignition	L.O.I.	5.5%
Moisture (% weight loss @ 110° C)	H_2O	<0.5%



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