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VANDERBILT

Technical Data

Paint Department

VANTALC® Mineral Filler

VANTALC 6H-II VANTALC F 2504 VANTALC R

Description: VANTALC 6H-II, VANTALC F 2504 and VANTALC R mineral fillers are high purity, hydrous magnesium silicate (talc) products from Montana. These talc products are super-fine grind talcs with high brightness and high oil absorption. VANTALC 6H-II filler is useful for gloss control of coatings, particularly where film smoothness and pigment suspension are important factors. VANTALC F 2504 and VANTALC R products are reinforcing fillers for paint, plastics, rubber and adhesives.

Typical Mineralogy:

Talc	>95%
Chlorite group minerals	<5%
Quartz	<1%

Typical Chemical Analysis:

Silicon Dioxide (SiO ₂) by difference	61%
Magnesium Oxide (MgO)	31%
Calcium Oxide (CaO)	<0.5%
Aluminum Oxide (Al ₂ O ₃)	1%
Iron Oxide (Fe ₂ O ₃)	1.3%
Loss on Ignition (1000 °C)	5.5%
Moisture	<0.5%

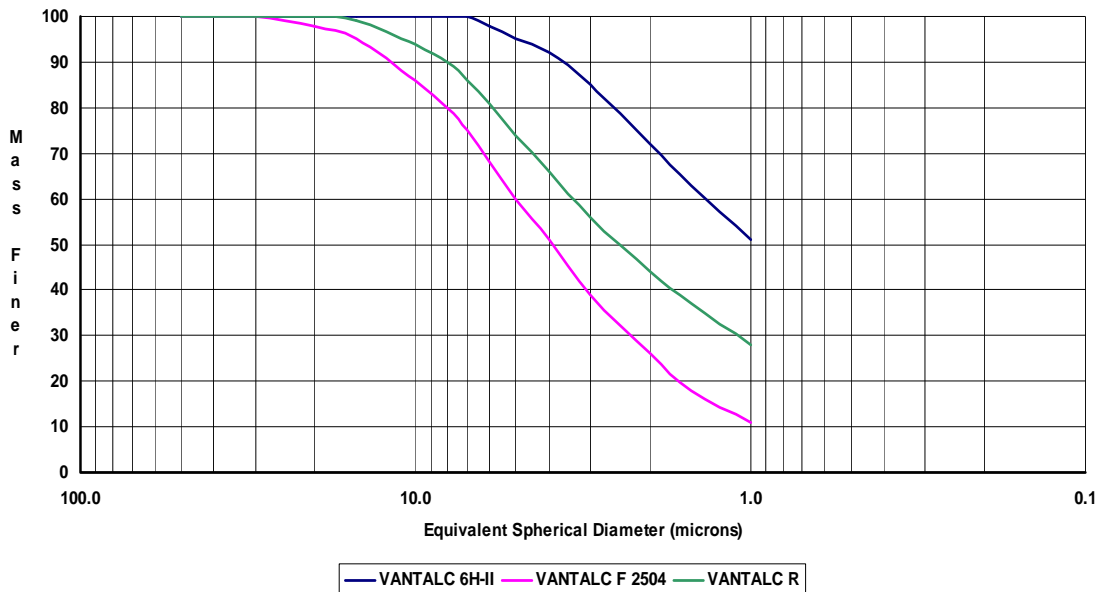
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Typical Properties:

	VANTALC® 6H-II	VANTALC F 2504	VANTALC R
Physical State	powder	powder	powder
Color	white	white	white
Density (Mg/m ³)	2.8	2.8	2.8
Weight (lbs/solid gallon)	23.4	23.4	23.4
GE Brightness (TAPPI T 646)	91	89	90
pH (10% slurry)	9.4	9.4	9.4
325 Mesh Residue	trace	trace	trace
Median Particle Size (SediGraph®)	1.0 µm	3.9 µm	2.5 µm
Einlehner Abrasion Loss (g/m ²)	8	18	18
Hegman Fineness (3 lbs/gallon)	6 +	5	5.5
Oil Absorption (ASTM D 281)	55	42	48
Bulk Density (lbs/ft ³)	15	21	21

Particle Size Distribution SediGraph 5100



VANTALC 6H-II, VANTALC F 2504 and VANTALC R products meet the requirements of ASTM D 605 for Magnesium Silicate Pigment.