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VANDERBILT

Technical Data

VANTALC[®] 6H-II

R.T. Vanderbilt Company, Inc.
30 Winfield Street, P.O. Box 5150, Norwalk, CT 06856-5150
Telephone: (203) 853-1400
Fax: (203) 853-1452, Web Site: www.rtvanderbilt.com

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VANTALC® 6H-II

Paint Department

Description: VANTALC 6H-II is a high purity, hydrous magnesium silicate pigment. It is a super-fine talc with high brightness and high oil absorption. VANTALC 6H-II is effective for gloss control of coatings, particularly where film smoothness and pigment suspension are important factors.

Typical Chemical Analysis (calculated as oxides):

	% by weight
Magnesium Oxide (MgO)	31.5
Silicon Dioxide (SiO ₂) - by difference	61.4
Calcium Oxide (CaO)	0.2
Aluminum Oxide (Al ₂ O ₃)	0.6
Ferric Oxide (Fe ₂ O ₃)	1.1
Sodium Oxide (Na ₂ O)	<0.1
Loss on Ignition (1000°C)	5.2

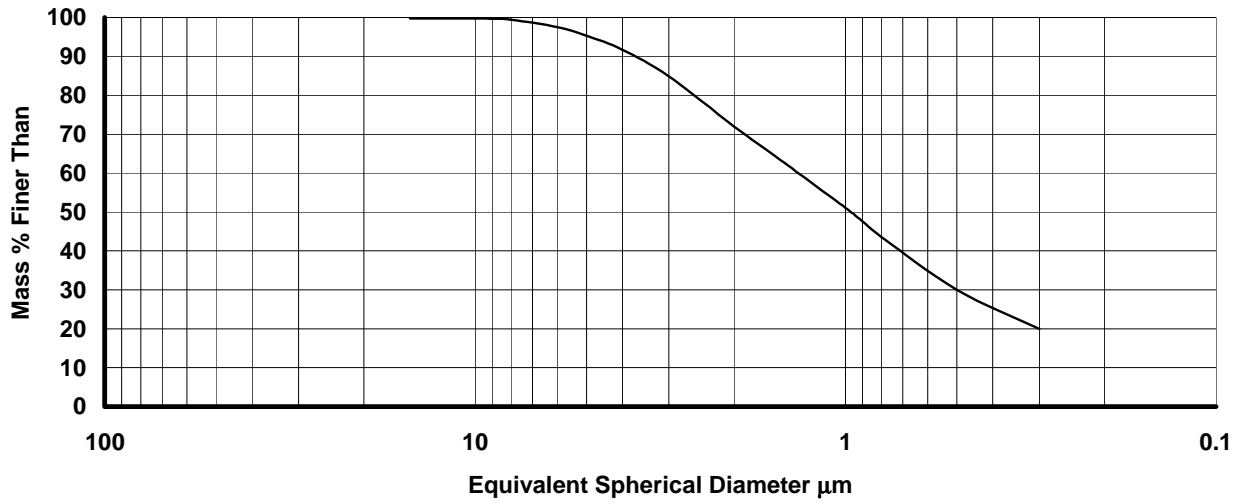
Typical Properties:

Density at 25°C (Mg/m ³)	2.8
Weight (lbs/solid gallon)	23.4
pH (ASTM D 1208)	9.4
G.E. Brightness, (TAPPI T 646)	91
> 325 Mesh (%)	trace
Oil Absorption (ASTM D 281)	55
Hegman Fineness (3 lbs/gallon)	6 minimum
Einlehner Abrasion Loss (g/m ²)	8
Moisture (%)	<0.5
Median Particle Size – SediGraph 5100	1.0 µm
Bulk Density (lbs/ft ³)	15

VANTALC 6H-II meets the requirements of ASTM D 605 for magnesium silicate pigment.

Over

Particle Size Distribution SediGraph 5100



Percent finer than:	30 μm	100
	20 μm	100
	10 μm	100
	5 μm	95
	2 μm	72
	1 μm	51

Median Particle Size: 0.97 μm

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