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VANDERBILT Technical Data

VANCOTE® HR-2000AS Treated Wollastonite

Calcium Metasilicate - Wollastonite
Surface-Modified

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TECHNICAL DATA

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Rubber and Plastics Department

VANCOTE HR-2000AS is an aminosilane treated grade of **VANSIL® HR-2000 wollastonite** that provides improved physical, dispersion, and flow properties in thermoplastics and thermosets. It is used as the sole reinforcement, as part of a binary reinforcement system, or to complement chopped glass fiber in providing strength, impact resistance and dimensional stability.

Typical properties	
Average aspect ratio	14:1
Average needle length, μm	75
200 mesh retention, %	4
Surface Area N_2 B.E.T., m^2/g	1.0
Bulk density, loose, lbs/ft^3	32
Bulk density, tapped, lbs/ft^3	47
Brightness, G.E.	88
Density, g/cm^3	2.9

Typical chemical analysis (calculated as oxides):

Calcium oxide (CaO)	44.0%
Silicon dioxide (SiO_2) (by difference)	50.0%
Aluminum oxide (Al_2O_3)	1.8%
Magnesium oxide (MgO)	1.5%
Iron oxide (Fe_2O_3)	0.3%
Sodium oxide (Na_2O)	0.2%
Manganese oxide (MnO)	<0.1%
Ignition loss (1000°C)	2.2%

Particle size distribution - SediGraph 5100:

	% Finer than Indicated Size
	VANSIL HR-2000
40 μm	90
20 μm	55
10 μm	35
5 μm	15
1 μm	1
Median	15 μm

For additional information regarding our high quality minerals and chemicals, please visit our website:

www.rtvanderbilt.com

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