

VANDERBILT

Technical Data

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VANSIL® WG

Acicular Wollastonite

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Rubber and Plastics Department

VANSIL WG is a high aspect ratio, long needle grade of wollastonite. It is used principally as a reinforcing agent to enhance mechanical strength properties in thermoplastic, thermoset, and engineered polymer systems where improved thermal properties and low resin demand are also required. Other performance advantages include reduced mold cycle time, low shrinkage, and overall improved dimensional stability.

Typical properties:

Density, g/cm ³	2.9
pH, 10% slurry	10-11
Brightness, G.E.	88
Oil absorption, rub out	40
Bulk density, loose (lbs/ft ³)	25
Bulk density, tapped (lbs/ft ³)	41
Average Aspect Ratio	15:1
Screen analysis:	
Plus 100 mesh, % (149 μm)	5
Plus 200 mesh, % (74 μm)	20
Surface Area N ₂ B.E.T. (m ² /g)	1.0

Note: Silane treatment options are available upon request.

Typical chemical analysis (calculated as oxides):

Calcium oxide (CaO)	44.0%
Silicon dioxide (SiO ₂) (by difference)	50.0%
Aluminum oxide (Al ₂ O ₃)	1.8%
Magnesium oxide (MgO)	1.5%
Iron oxide (Fe ₂ O ₃)	0.3%
Sodium oxide (Na ₂ O)	0.2%
Manganese oxide (MnO)	<0.1%
Ignition loss (1000°C)	2.2%

Before using any product, read, understand and comply with the information and precautions in the MSDS, label and other product literature

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