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# VANDERBILT

## *Technical Data*

### **VANCOTE<sup>®</sup> WG-AS Treated Wollastonite**

Calcium Metasilicate - Wollastonite  
Surface-Modified

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# TECHNICAL DATA

## VANCOTE® WG-AS Treated Wollastonite

Calcium Metasilicate – Wollastonite  
Surface-Modified

Rubber and Plastics Department

**VANCOTE WG-AS** is **VANSIL® WG** wollastonite treated with aminosilane for improved physical, dispersion and flow properties in thermoplastics and thermosets. Treated high aspect ratio wollastonite can partially replace milled or chopped glass fiber to provide the improved properties at a lower cost than that of glass fiber alone.

Typical properties:	VANCOTE WG-AS
Density, g/cm <sup>3</sup>	2.9
pH, 10% slurry (ASTM D 1208)	10-11
Brightness, G.E. (TAPPI T-646)	87
Oil absorption, rub out (ASTM D 281)	26
Bulk density, loose (lbs./ft <sup>3</sup> )	27
Bulk density, tapped (lbs./ft <sup>3</sup> )	56
Average Aspect Ratio	15:1
Plus 200 mesh, % (Jet Sieve)	12
Surface Area N <sub>2</sub> B.E.T. (m <sup>2</sup> /g)	1.2

### Typical chemical analysis (calculated as oxides):

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

**Storage Note** - Due to the agglomeration of **VANCOTE** treated wollastonite during prolonged storage, more than six months' inventory is not recommended.

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