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# VANDERBILT

## *Technical Data*

### **VANCOTE<sup>®</sup> W-40ES Treated Wollastonite**

Calcium Metasilicate - Wollastonite  
Surface-Modified

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# TECHNICAL DATA

## VANCOTE<sup>®</sup> W-40ES Treated Wollastonite

Calcium Metasilicate – Wollastonite  
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Rubber and Plastics Department

**VANCOTE W-40ES** is a general-purpose 400 mesh wollastonite treated with epoxysilane, principally for use in thermosets and rubber polymers, such as nitriles, EPDM, and fluoropolymers.

### Typical properties:

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)	29
Bulk density, loose (lbs./ft <sup>3</sup> )	37
Bulk density, tapped (lbs./ft <sup>3</sup> )	59
Plus 325 mesh, % (45µm)	0.03
Median Diameter (µm) - SediGraph	5.6
Surface Area N <sub>2</sub> B.E.T. (m <sup>2</sup> /g)	2.7

### 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%

### Particle size distribution - SediGraph 5100:

<u>Diameter (µm)</u>	<u>% Finer than Indicated Size</u>
20	98
15	93
10	75
5	44
2	18
1	6
Median Diameter (µm)	5.6

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

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