



COMPREHENSIVE MINERALS GUIDE

# For Rubber Applications

## RUBBER APPLICATIONS

	VANSIL® WG Wollastonite	VANSIL W-40	VANSIL W-50	DIXIE CLAY® Clay	PAR® Clay	BILT-PLATES® 156 Clay	McNAMEE® Clay	PYRAX® ABB Pyrophyllite	PYRAX B
<b>AUTOMOTIVE</b>									
Tires				◇	◇	◇	◇		
Inner Tubes				◇	◇	◇	◇		
Gaskets/Seals	◇			◇	◇	◇	◇		
O-Rings				◇	◇	◇	◇		
Brake Pistons	◇			◇					
Splash Guards/Flaps				◇	◇	◇	◇		
<b>OTHER TRANSPORTATION</b>									
Aircraft				◇	◇	◇	◇	◇	◇
Recreational				◇	◇	◇	◇	◇	◇
Floats/Buoys				◇	◇	◇	◇		
Inner Tubes				◇	◇	◇	◇		
Railroad Crossing Pads	◇			◇	◇	◇	◇	◇	◇
Off-Road Tires/Accessories				◇	◇	◇	◇		
<b>CONSTRUCTION</b>									
Roofing, Related Membranes	◇			◇					
Mats/Pads				◇	◇	◇	◇	◇	◇
Expansion Joints	◇			◇	◇	◇	◇	◇	◇
Flooring	◇			◇	◇	◇	◇	◇	◇
Liners				◇	◇	◇	◇	◇	◇
Mallets				◇	◇	◇	◇	◇	◇
Stair Treads				◇	◇	◇	◇	◇	◇
Weatherstripping/Seals				◇	◇	◇	◇		
<b>CONSUMER</b>									
Footwear				◇	◇	◇	◇		
Appliance Parts				◇	◇	◇	◇		
Play & Sport				◇	◇	◇	◇		
Novelties				◇	◇	◇	◇		
Erasers				◇		◇			
<b>GENERAL</b>									
Adhesives/Sealants/Mastics	◇	◇	◇	◇	◇	◇	◇	◇	◇
Films		◇	◇						
Wire & Cable		◇	◇	◇	◇	◇	◇		
Aprons/Sleeves				◇	◇	◇	◇	◇	◇
Bearings/Bearing Pads				◇	◇	◇	◇	◇	◇
Battery Parts				◇	◇	◇	◇		
Bellows				◇	◇	◇	◇	◇	◇
Belts/Pulleys				◇	◇	◇	◇		
Bladders				◇	◇	◇	◇	◇	
Blankets/Covers	◇								
Cellular Goods				◇	◇	◇	◇		
Coated/ Dipped Goods						◇		◇	◇
Diaphragms				◇	◇	◇	◇		
Hose				◇	◇	◇	◇	◇	◇
Printing Rolls/Blankets				◇	◇	◇	◇	◇	◇
Rubber Bands				◇	◇	◇	◇		
Safety Items		◇		◇	◇	◇	◇	◇	◇
Stoppers				◇	◇	◇	◇	◇	◇

## MINERALS GUIDE FOR RUBBER APPLICATIONS

### Wollastonite

**VANSIL®** Wollastonite is a high brightness calcium silicate mineral used as a filler and reinforcing agent in thermoplastic and thermoset polymers. The high aspect ratio grades contribute to increased mechanical strength.

	Density		GE Brightness	Median Particle Size, $\mu\text{m}$	Oil Abs., %	Aspect Ratio
	g/cm <sup>3</sup>	lb/gal				
Low Aspect Ratio Grades						
<b>VANSIL® W-40</b> Wollastonite	2.90	24.2	87	6	31	<5:1
<b>VANSIL W-50</b>	2.90	24.2	90	4	31	<5:1
High Aspect Ratio Grades						
<b>VANSIL WG</b>	2.90	24.2	89	—	40	15:1
<b>VANSIL HR-2000</b>	2.90	24.2	89	14	46	14:1
<b>VANSIL HR 1500</b>	2.90	24.2	89	9	44	14.1

### Kaolin Clay

Air-floated kaolin clays are excellent reinforcing agents for plastics, rubber and adhesives.

	Density		GE Brightness	Median Particle Size, $\mu\text{m}$	Oil Abs., %
	g/cm <sup>3</sup>	lb/gal			
<b>BILT-PLATES® 156</b> Clay	2.62	21.8	75	0.2	41
<b>DIXIE CLAY®</b> Clay	2.60	21.6	70	0.2	41
<b>McNAMEE®</b> Clay	2.62	21.8	75	1.2	35
<b>PAR®</b> Clay	2.62	21.8	75	0.2	41

### Pyrophyllite

**PYRAX®** Pyrophyllite is an inexpensive reinforcing agent used in polymers.

	Density		GE Brightness	Median Particle Size, $\mu\text{m}$	Oil Abs., %
	g/cm <sup>3</sup>	lb/gal			
<b>PYRAX® ABB</b> Pyrophyllite	2.80	23.3	79	10.0	35
<b>PYRAX B</b>	2.80	23.3	80	10.0	36
<b>PYRAX WA</b>	2.80	23.3	78	14.0	24

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