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# VANDERBILT

## *Technical Data*

### **VANOX<sup>®</sup> Antioxidant Synergist Slurries**

Typical Properties

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# TECHNICAL DATA

No. 1219  
Rubber and Plastics Department

## **VANOX<sup>®</sup> Antioxidant Synergist Slurries** Typical Properties

**VANOX ZMTI Slurry** and **VANOX SPL Slurry** are commercially available antioxidant synergists for latex applications. **WB-3 Slurry** is an experimental slurry of **VANOX MTI** that is currently available for customer evaluation.

Typical Properties	VANOX ZMTI Slurry	VANOX SPL Slurry	WB-3 Slurry
Physical State	liquid	liquid	liquid
Color	white	white	white
Density at 25°C, Mg/m <sup>3</sup>	1.25	1.14	1.18
Total solids, %	52	52	52
Zinc content, %	8.8	4.4	---
pH	7-9	8-10	7-9
Brookfield Viscosity, cps	300	500	300
Particle Size			
Mean, µm	3.0	4.3	4.5
Median, µm	1.5	2.7	3.7

**VANOX ZMTI Slurry**, an antioxidant synergist, should be used in conjunction with another antioxidant in order to maximize its effectiveness. This product improves the oxidative resistance of latex films more effectively than doubling the level of antioxidant. **VANOX ZMTI Slurry** can also be used to replace metal oxide dispersions such as zinc oxide in most latex formulations, which helps increase the compound's potlife while decreasing the amount of zinc (patent pending).

**VANOX SPL Slurry** is a convenient blend of **VANOX ZMTI** and a proprietary nonstaining phenolic antioxidant. This blend creates an exceptionally effective antioxidant system for natural and synthetic latexes in which the performance of this non-staining antioxidant system is equivalent to that of an amine.

**WB-3 Slurry** is a 50% active slurry of **VANOX MTI** antioxidant synergist that should also be used in conjunction with another antioxidant to maximize its effectiveness. Importantly for adhesives applications, **WB-3 Slurry** helps to improve the oxidative resistance of latex films without decreasing the level of surface tack.

**VANOX ZMTI Slurry**, **VANOX SPL Slurry** and **WB-3 Slurry** are made using R.T. Vanderbilt Company, Inc.'s proprietary dispersion technique, which produces dispersions with exceptional anti-settling properties.

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