



Distributed in the Interest
of Product Development

VANDERBILT

Technical Data

WB-3 Slurry **a Dispersion of VANOX[®] MTI Antioxidant Synergist** for use in Natural Rubber Latex with Amine and Phenolic Antioxidants

R.T. Vanderbilt Company, Inc.
30 Winfield Street, P.O. Box 5150, Norwalk, CT 06856-5150
Telephone: (203) 853-1400
Fax: (203) 853-1452, Web Site: www.rtvanderbilt.com

Before using, read, understand and comply with the information and precautions in the Material Safety Data Sheets, label and other product literature. The information presented herein, while not guaranteed, was prepared by technical personnel and, to the best of our knowledge and belief, is true and accurate as of the date hereof. No warranty, representation or guarantee, express or implied, is made regarding accuracy, performance, stability, reliability or use. This information is not intended to be all-inclusive, because the manner and conditions of use, handling, storage and other factors may involve other or additional safety or performance considerations. The user is responsible for determining the suitability of any material for a specific purpose and for adopting such safety precautions as may be required. R. T. Vanderbilt Company does not warrant the results to be obtained in using any material, and disclaims all liability with respect to the use, handling or further processing of any such material. No suggestion for use is intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patent or to violate any federal, state or local law or regulation.

WB-3 Slurry

a Dispersion of VANOX[®] MTI Antioxidant Synergist

for use in Natural Rubber Latex with Amine and Phenolic Antioxidants

WB-3 Slurry, a dispersion of **VANOX MTI**, significantly improves the heat resistance of natural rubber latex compounds. The use of **VANOX MTI** with an amine or phenolic antioxidant provides superior results as compared to just doubling the amount of antioxidant. This product is excellent in many applications, including:

- Adhesives
- Gaskets and Coatings
- RFL Dips

Optimal results are achieved by using a 1:1 ratio of amine antioxidant to WB-3 Slurry (**VANOX MTI**). Where the adhesive properties of the film are important, **VANOX MTI** is preferred because it does not interfere with the tack of the adhesive or coating.

WB-3 Slurry antioxidant slurry is a 50% active dispersion of **VANOX MTI** with exceptional anti-settling properties.

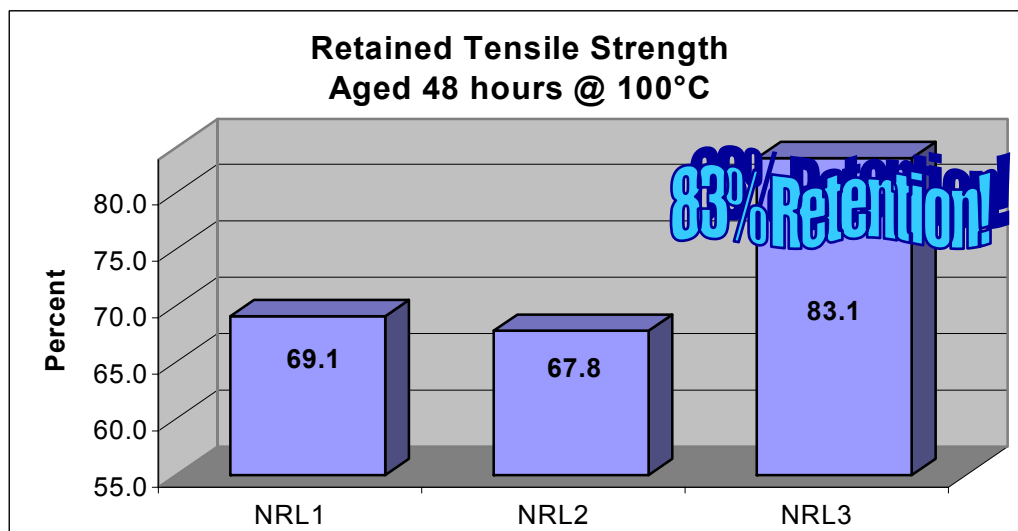


Figure 1: Retained Tensile Strength after Aging

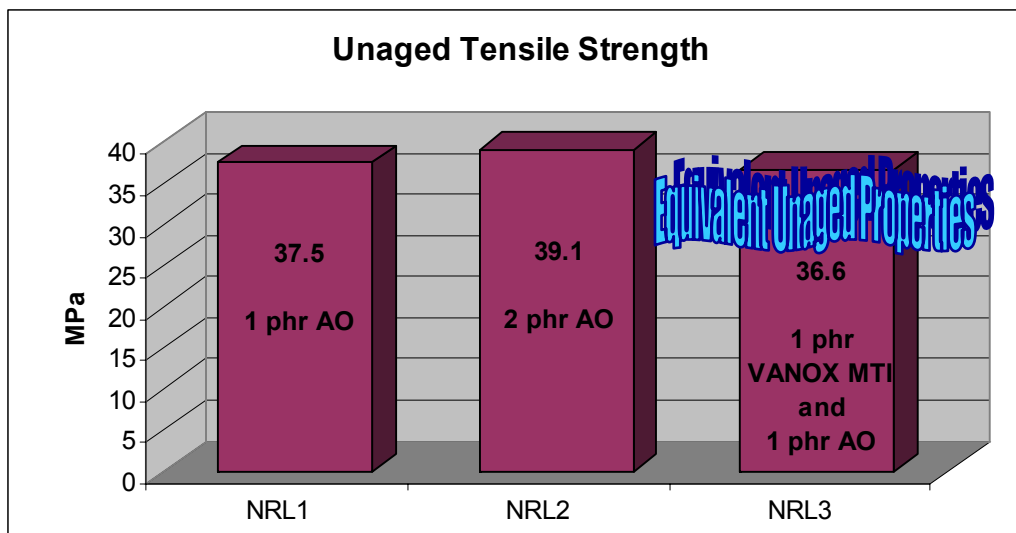


Figure 2: Unaged Tensile Strength

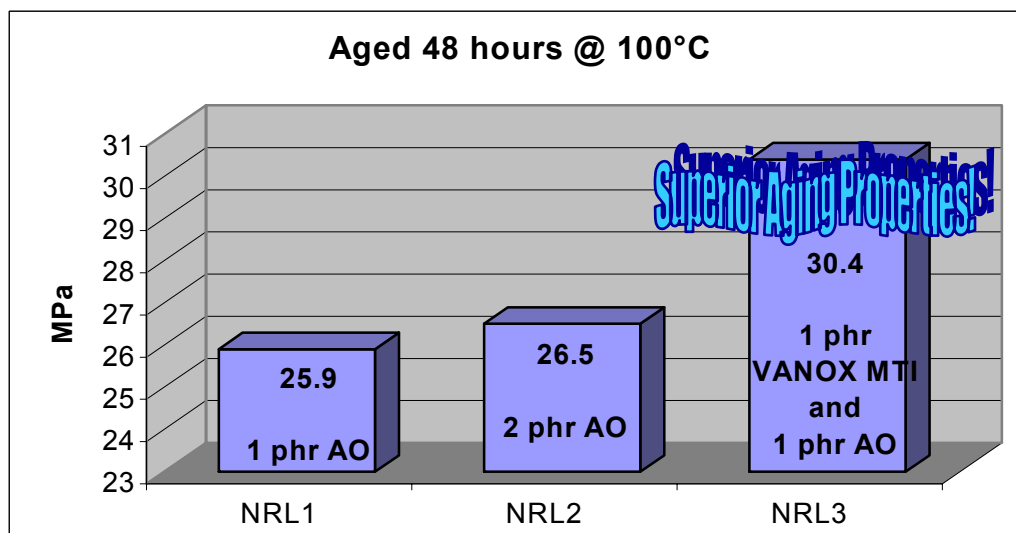


Figure 3: Aged Tensile Strength

The following test recipe can be used as a starting point to begin compounding using this antioxidant system.

INGREDIENTS	COMPOUNDS (phr)		
	NRL1	NRL2	NRL3
High-Ammonia Natural Rubber Latex	100.0	100.0	100.0
DARVAN® WAQ surfactant	1.0	1.0	1.0
ZINC OXIDE Dispersion	0.5	0.5	0.5
Sulfur dispersion	0.5	0.5	0.5
SETSIT® 9 accelerator	0.7	0.7	0.7
DARVAN SMO surfactant	1.0	1.0	1.0
AGERITE® STALITE® antioxidant	1.0	2.0	1.0
WB-3 Slurry	----	----	1.0

The compounds were cured for 20 minutes at 100°C.

AGERITE, DARVAN, SETSIT and VANOX are registered trademarks of R.T. Vanderbilt Company, Inc.

STALITE is a registered trademark of Emerald Performance Materials, LLC.

**For additional information regarding our
high quality minerals and chemicals,
please visit our website:**

www.rtvanderbilt.com

- Technical data sheets
- MSDS information
- Sample requests
- Specifications
- Product brochures
- Articles
- Presentations
- Reports