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Technical Data

VANOX[®] SPL Synergized Antioxidant Slurry A Complete Antioxidant System In Natural Rubber Latex

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VANOX[®] SPL Synergized Antioxidant Slurry

A Complete Antioxidant System

In Natural Rubber Latex

VANOX SPL Slurry consists of a convenient 50% dispersion **VANOX ZMTI** antioxidant synergist and phenolic antioxidant.

The synergy between **VANOX ZMTI** and phenolic antioxidants in films deposited from latex is evidenced by superior physical properties, heat and aging resistance. The attributes of a latex film protected by this synergistic combination are superior to those of a latex film protected by a phenolic antioxidant alone. The antioxidant synergy between 1 phr of **VANOX ZMTI** and 1 phr of phenolic protects latex films significantly better than increasing the phenolic antioxidant from 1 phr to 2 phr.

The protection offered by this synergy is not limited to a single polymer. To date, this protection has been exhibited in natural rubber latex, NBR latex and NEOPRENE LIQUID DISPERSIONS.

Heat aging properties are important considerations for under-the-hood latex adhesives and gasketing materials. Additionally, accelerated aging results are the best gauge of the long term properties of latex products. The shelf life of latex products is extended when **VANOX SPL Slurry** is incorporated into the latex compound as the antioxidant system. Additionally, the whiteness and brightness of the films are improved by the use of **VANOX ZMTI**.

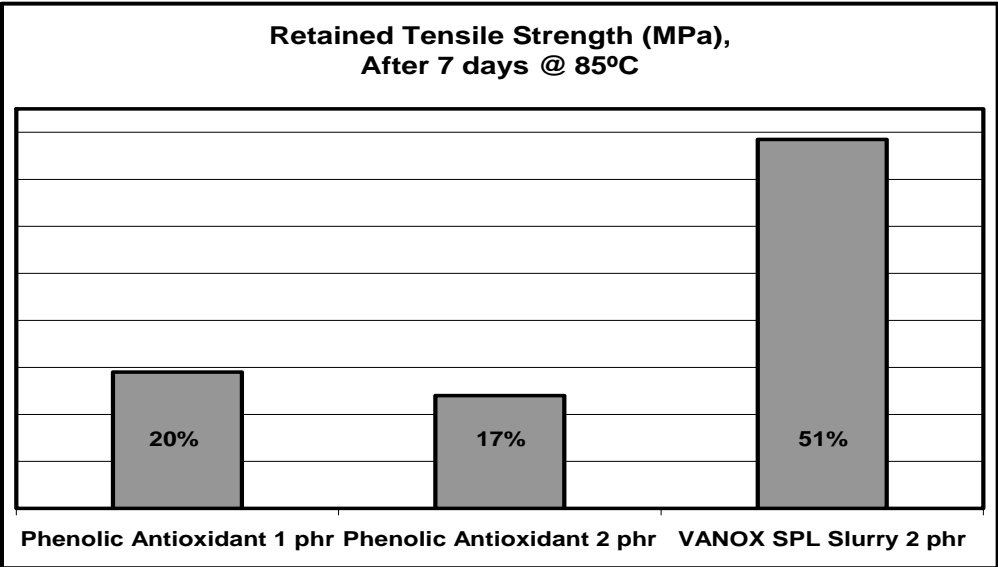
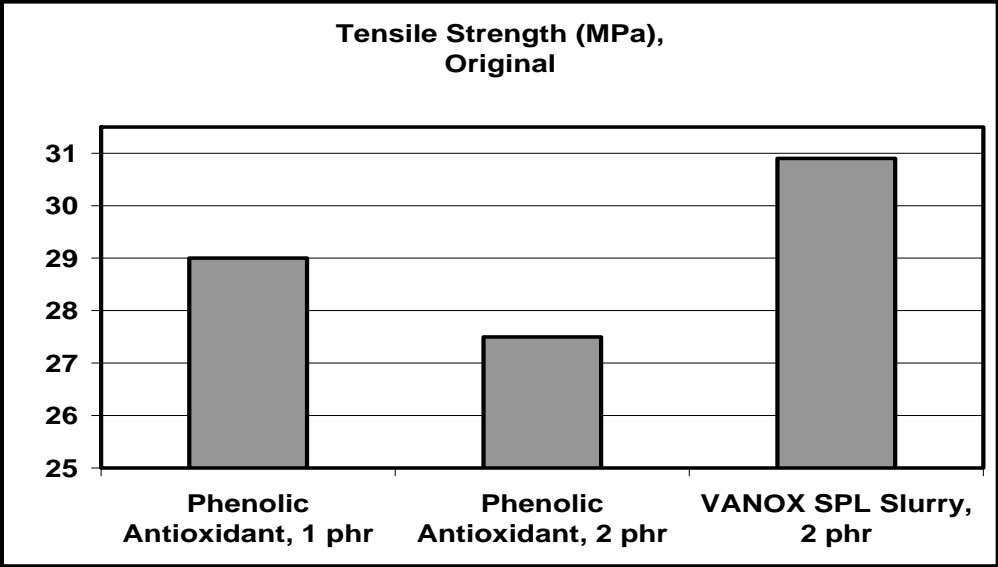
VANOX ZMTI is zinc 2-mercaptotoluimidazole.

Samples of this product are available for evaluation.

Test Compound

<u>INGREDIENTS:</u>	<u>DRY</u>	<u>WET</u>
62% High Ammonia Natural Rubber Latex	100	161
DARVAN[®] WAQ Surfactant	1	3
60% ZINC OXIDE Dispersion	0.5	0.83
50% Sulfur Dispersion	0.5	1
SETSIT[®] 9 Accelerator	---	1.5
DARVAN SMO Surfactant	1	3
<u>Variables</u>		
50% Phenolic Antioxidant Dispersion	X	2X
50% VANOX SPL Slurry	X	2X

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



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