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Technical Data

VANOX[®] SPL Synergized Antioxidant Slurry In Synthetic Latexes A Complete Antioxidant System

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VANOX[®] SPL Synergized Antioxidant Slurry In Synthetic Latexes

A Complete Antioxidant System

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

The synergy between **VANOX ZMTI** and phenolic antioxidants in films made from latex is evidenced by exceptional physical properties, as well as 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 synergy between 1 phr of **VANOX ZMTI** and 1 phr of phenolic antioxidant protects latex films significantly better than an increase in the phenolic antioxidant alone.

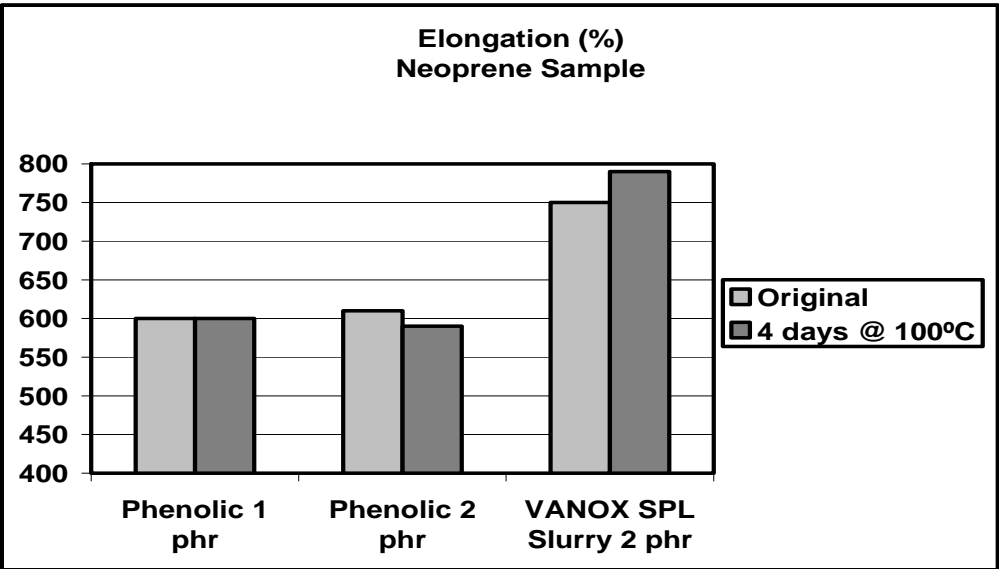
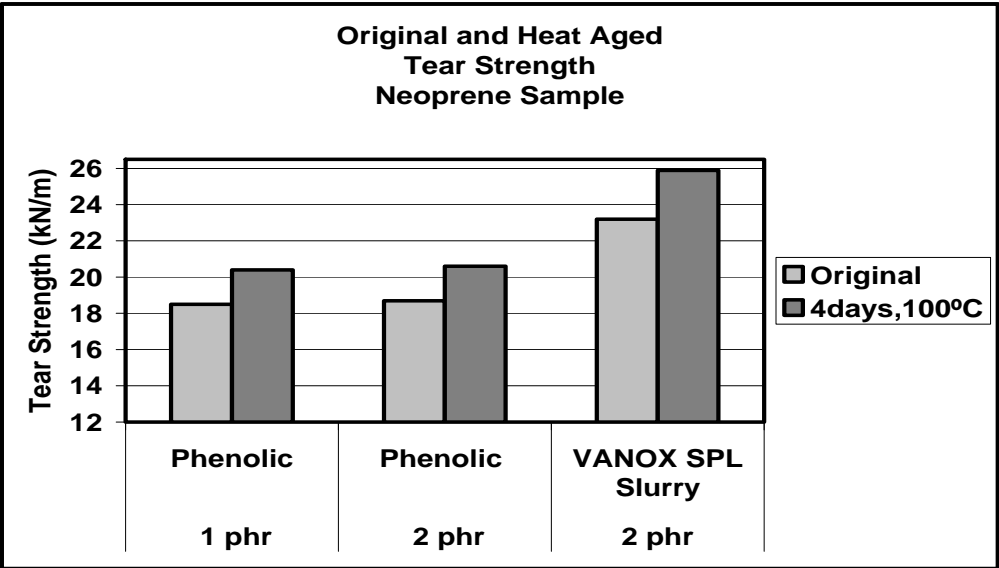
Accelerated aging results are the best gauge of the long term properties of latex products. The shelf life of latex products is extended when **VANOX SPL Slurry** is incorporated into the latex compound as the antioxidant system. The **VANOX ZMTI** in the slurry also adds to the whiteness and brightness of the finished latex product.

An increase in the physical properties of a synthetic latex film is commonly associated with a decrease in elongation. This is not the case with this synergistic antioxidant system. Physical properties increase, but elongation is virtually unaffected. Products made with **VANOX SPL Slurry** also show an increase in tear strength.

Polychloroprene Liquid Dispersion Test Compound

<u>INGREDIENTS:</u>	<u>DRY</u>	<u>WET</u>
50% NEOPRENE 750 Liquid Dispersion	100	200
DARVAN[®] WAQ Surfactant	1	3
60% Zinc Oxide Dispersion	1	0.83
BUTYL NAMATE[®] Accelerator	---	1.5
50% METHYL TUADS[®] Accelerator	1	2
DARVAN SMO Surfactant	1	3
<u>Variables</u>		
50% Phenolic AO Dispersion	X	2X
50% VANOX SPL Slurry	X	2X

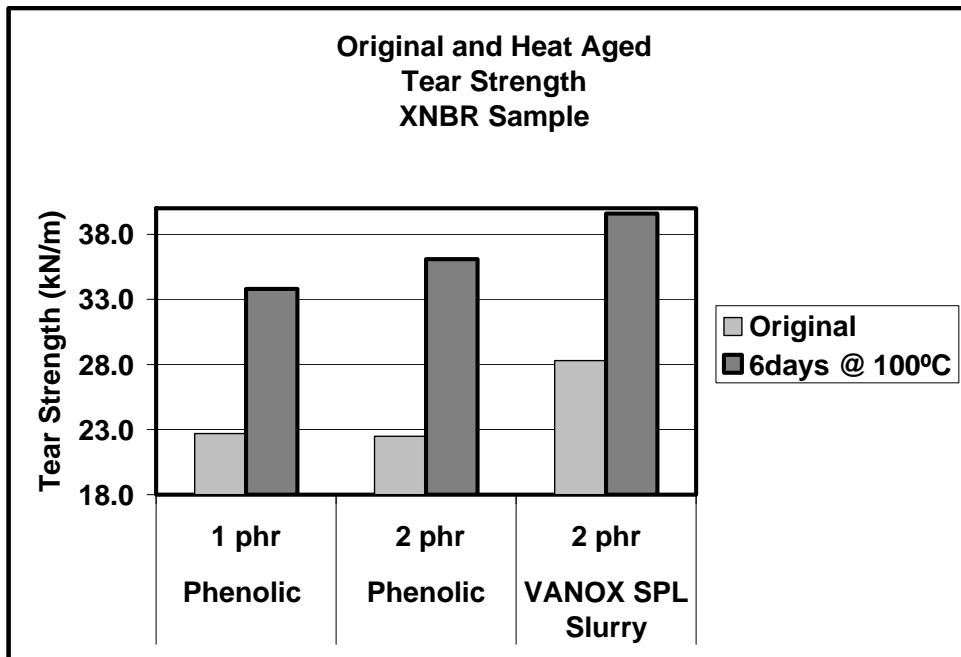
The compounds were cured for 20 minutes at 100°C.



Acrylonitrile Latex Test Compound

<u>INGREDIENTS:</u>	<u>DRY</u>	<u>WET</u>
41.5% Carboxylated Acrylonitrile Latex	100	161
DARVAN WAQ	1	3
60% Zinc Oxide Dispersion	2	3.3
SETSIT® 104 Accelerator	---	1.5
50% METHYL TUADS Dispersion	1	2
DARVAN SMO	1	3
<u>Variables</u>		
50% Phenolic AO Dispersion	X	2X
50% VANOX SPL Slurry	X	2X

The compounds were cured for 30 minutes at 141°C.



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