



# HARWICK

## S T A N D A R D

ISO 9001-2015 REGISTERED

## Technical Data Sheet

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### Stangard® 500 Antioxidant

Stangard 500 is a finely ground, intimate mixture of alkylated mercaptobenzimidazole and diphenylamine-acetone reaction product. These two highly effective antioxidants combine to provide outstanding high temperature resistance for NBR, CR, BR and SBR compounds.

In addition to its antioxidant properties, Stangard 500 also functions as an economical metal deactivator for copper.

#### TYPICAL PROPERTIES

Appearance	Light Tan Powder
Specific Gravity	1.24

The performance of Stangard 500 as a high temperature antioxidant is illustrated in the following compounding study.

#### ***NITRILE COMPOUND***

<b>Ingredient</b>	<b>PHR</b>
Nitrile (34% ACN, 45 Mooney)	100.00
N550	40.00
N774	40.00
Phthalate Plasticizer	15.00
Stearic Acid	1.00
Zinc Oxide	5.00
793 Conditioned Sulfur	1.50
TBBS	2.88
TMTD	0.24
Antioxidant (as listed)	2.00

08/19/2019

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**HARWICK STANDARD DISTRIBUTION CORPORATION**

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#### RESULTS

	No AO	STANGARD 500
Mooney Scorch @ 135°C T5, minutes	8.0	4.7
Stress-Strain (Cure T90 @ 160°C)		
Tensile	2515	2595
100% Modulus	850	725
Elongation	300	365
Hardness (A)	76	74
Aged 72 Hours @ 125°C		
Tensile (Retention)	1980 (79%)	2790 (108%)
100% Modulus	-----	1645
Elongation (Retention)	90 (30%)	170 (46%)
Hardness	85	83
Aged 48 Hours @ 150°C		
Tensile (Retention)	825 (33%)	1625 (63%)
Elongation (Retention)	20 (7%)	75 (20%)
Hardness	88	85

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