EASTMAN

Technical Data Sheet
Duralink™ HTS

Product Description

Chemical name: Hexamethylene-1,6-bis(thiosulfate), disodium salt, dihydrate
Molecular weight: 390

Duralink™ HTS is used in sulfur based vulcanization systems to generate hybrid crosslinks which provide increased retention of physical and dynamic properties when exposed to anaerobic conditions at elevated temperatures such as those experienced during overcure, when using high curing temperatures or during product service life.

MAJOR APPLICATIONS AND PROPERTIES:

- Duralink™ HTS is used with conventional or semi-efficient sulfur based vulcanization systems to generate thermally stable hybrid crosslinks which provide excellent dynamic flexibility in NR, IR, SBR, BR and blends of these polymers.
- Duralink™ HTS is used in SBR based compounds to modify the viscoelastic dynamic properties.
- Duralink™ HTS is used as an adhesion promoter to enhance the adhesion between rubber compounds and brass plated steel reinforcing materials.
- A slight reduction in scorch safety and modulus and a slight increase in cure time may be observed when using Duralink™ HTS in various compounds.
- Duralink™ HTS is non-staining and non-discoloring in most compounds.

Typical Properties

Property	Typical Value, Units
General	
Form	Dust suppressed fine powder
Density	
@ 25°C	1390 kg/m^3
Residue on 150 µM sieve	<0.05 %

Compounding Information

The use of Duralink™ HTS at 1-2 phr levels provides enhanced network stabilization upon thermal-oxidative aging in natural rubber, SBR and BR based elastomer or blend compounds. Thus, properties which depend upon network characteristics and dynamic mechanical properties including tear, fatigue, modulus, grip characteristics and rolling resistance are better maintained throughout the service life of the article. These benefits are apparent in conventional, semi-efficient and efficient vulcanization systems.

Handling Precautions

For detailed information on toxicological properties and handling precautions please refer to the current Safety Data Sheet. This information sheet can be downloaded from our web site or requested from the nearest Eastman office and should be consulted before handling this product.

Storage

Store Duralink™ HTS in a cool, dry, well ventilated area, avoiding exposure of the packaged product to direct

sunlight.

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