



Vulcanization Stabilizer HTS

Chemical Name	hexamethylene-1,6-bis(thiosulfate) disodium salt dihydrate		
Molecular Formula	C ₆ H ₁₂ Na ₂ O ₆ S ₄		
CAS NO.	5719-73-3		
Synonym	Duralink HTS; Pilcure DHTS		
Structure	$\text{Na}^+\text{SO}_3^- \text{---} \text{S} \text{---} (\text{CH}_2)_6 \text{---} \text{S} \text{---} \text{SO}_3^- \text{Na}^+ \cdot 2\text{H}_2\text{O}$		
Revision Number	02	Date	01/12/2009
Specification			
Item	HTS	Test Method	
Appearance(visual inspection)	White powder		
Assay content % ≥	95	GB/T 21184-2007	
Chloride Content(as NaCl)%	1.0	GB/T 9729-2007	
Loss on drying% ≤	8.0-11.0	ASTM D 4571-02	
Residues(150μm)% ≤	0.50	ASTM D 5461-02	
Properties:			
White powder, it is soluble in water. Partially soluble in alcohol. Insoluble in other organic solvents.			
Application			
<p>It 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, BR and blends of these polymers.</p> <p>It is used as an adhesion promoter to enhance the adhesion between rubber compounds and brass plated steel reinforcing material.</p> <p>As a Bonding Promoter For Brass Coated Steel Cord, it is possible to substitute the Cobalt complexes from steel cord skim compounds. When it is used; the side reaction between Cobalt and Sulfur can be eliminated and thus it is possible to reduce the Sulfur dosage.</p>			
Recommend Dosage			
<p>It is used at 1.0-3.0 dosage with Conventional or Semi-EV Sulfur Cure Systems to generate thermally stable hybrid cross links which provide excellent dynamic flexibility to NR, IR, SBR, BR and the blends of these polymers.</p> <p>HTS is used at 1.0-2.0 phr dosage in SBR tread compounds to modify its visco elastic dynamic properties in order to improve the compromise between Wet Grip, Ice Grip and Rolling Resistance. It is used at 1.0-2.0 phr dosages as an Adhesion promoter to enhance the adhesion between rubber compound and brass coated steel cord of tyres.</p>			
Storage			
It should be stored in the dry and cool place with good ventilation avoiding exposure of the packaged product to direct sunlight.			
Package			
Bag : 25kg/bag		Pallet(1.1*1.1): 700kg	