



SOVEREIGN CHEMICAL COMPANY

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Oxoflex ZMTI Powder (Non-Oil)

Manufacturer:	Sovereign Chemical Company
Classification:	Antioxidant, Zinc 2-mercapto-toluidimidazole
Chemical Composition:	Zinc salt of 4- and 5-methylmercaptobenzimidazole

Physical Data

Specification Property	Value	Test Method
Assay	96.0% minimum	Supplier % by mass
Melting point	280.0°C minimum	ASTM D 1519
Zinc Content	17.0 – 19.5%	Supplier % by mass
Heat loss	2.0 % maximum	ASTM D 4571 @ 70°C
Sieve residual	0.5% maximum	ASTM D 5461 retained 200
Mesh		

Typical Properties

Physical Form	White to beige powder	Visual
Specific Gravity	1.66-1.72	Typical

Applications

Oxoflex ZMTI is an antioxidant that is specifically designed for latex and dry rubber applications that required high heat resistance. It also gives protection against high temperature discoloration and flex cracking. **ZMTI** offers protection against overcure produced with ultra-accelerators like dithiocarbamates and thiuram.

Polymers: Effective in BR, SBR, NR, IR, butyl, halobutyl, CR, NBR, plastics, polyolefins, polystyrene, ABS. Especially effective in solution type synthetic polymers. Disperses in latex systems.

Synergism: Synergistic with thioesters and phosphates and TDQ.

Staining: Non-staining and non-discoloring and suitable for white and colored rubber goods.

Cure Effect: No effect on the cure system.

Packaging and Storage

Packaging: 25 kg.(55.1 lb) paper bags

Shelf Life: 2 years if stored as indicated below.

Storage: Store in a cool dry place in the original unopened packages.

Specification Date: February 15, 2007 (Supersedes: October 11, 2005)