

# Oxoflex ZMTI Powder

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

Specification Properties	Value	Test Method
Assay, %	96 minimum	Supplier
Heat Loss @ 70°C, %	2 maximum	ASTM D4571
Melting Point, °C	280 minimum	ASTM D1519
Sieve Residue on 200 mesh, %	0.5 maximum	ASTM D5461
Zinc Content, %	17-19.5	Supplier
Typical Properties	Value	Test Method
Oil Content, %	3-4	In Process
Physical Form	White to beige powder	Visual
Specific Gravity	1.5	Typical

## > APPLICATIONS

**Uses:** 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 over cure produced with ultra-accelerators like dithiocarbamates and thiram.

**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 TMQ.

**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:** 20 kg (44.1 lb.) bags.

**Shelf Life:** 2 years from date of manufacture if stored as indicated below.

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

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