

Sovchem[®] MBTS Oiled Powder

Manufacturer:	Sovereign Chemical Company
Classification:	Thiazole Accelerator
CA Nomenclature:	Benzothiazole, 2, 2'-dithiobis
Chemical Synonyms:	Mercaptobenzothiazole disulfide, Benzothiazyl disulfide, Dibenzothiazole disulphide

Specification Properties	Value	Test Method
Ash Content, %	0.5 maximum	GB11409.7-89
Assay, %	95 minimum	ASTM D5051
Free MBT, %	1 maximum	Typical
Heat Loss, %	0.4 maximum	ASTM D4571
Melting Point (Final), °C	179 maximum	ASTM D1519
Melting Point (Initial), °C	166 minimum	ASTM D1519
Oil Content, %	1-2	In Process
Sieve Residue on 100 mesh, %	0.1 maximum	ASTM D5461
Sieve Residue on 230 mesh, %	0.5 maximum	ASTM D5461
Typical Properties	Value	Test Method
Physical Form	Light colored powder	Visual
Specific Gravity	1.56	Typical

> APPLICATIONS

Uses: Fast curing primary accelerator with good scorch safety suitable for use in most polymers. Best results are obtained with a combination of MBTS as the primary accelerator and thiuram, dithiocarbamate or guanidine accelerators as boosters. MBTS can be used as a scorch modifying secondary accelerator with sulfenamides in natural rubber and synthetic elastomers. Used as a retarder and plasticizer in CR. MBTS can safely be used to produce non-discoloring and non-staining rubber products. It is particularly recommended for rubber to metal bonded products.

Polymers: Natural rubber and most synthetic elastomers.

Synergism: MBTS cure performance can be boosted with thiuram, dithiocarbamate or guanidine accelerators.

Cure Effect: Promotes a flat moderately fast cure rate. Similar in performance to MBT but provides much greater scorch safety.

Crosslink Type: MBTS promotes a balance of mono-, di- and poly-sulfidic crosslinks resulting in vulcanizates with a good balance between heat aging resistance and tear resistance.

> PACKAGING AND STORAGE

Packaging: 25 kg (55.1 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: May 23, 2011 (Supersedes September 17, 2009)