

Sovchem[®] MBT Oiled Powder

Manufacturer: Sovereign Chemical Company
 Classification: Thiazole Accelerator
 CA Nomenclature: 2-Mercaptobenzothiazole
 Synonym Nomenclature: 2-Benzothiazolethione, 2-benzothiazolethiol, Benzothiazole-2-thione

Specification Properties	Value	Test Method
Ash Content, %	0.4 maximum	GB11409.7-89
Assay, %	95.0 minimum	Supplier
Heat Loss, %	0.5 maximum	GB11409.4
Melting Point (Final), °C	182.0 maximum	GB11409.1
Melting Point (Initial), °C	171.0 minimum	GB11409.1
Oil Content, %	1-2	In Process
Sieve Retention, % @ 100 mesh	0.10 maximum	GB11409.5-89
Sieve Retention, % @ 230 mesh	0.50 maximum	GB11409.5-89
Typical Properties	Value	Test Method
Appearance	Cream colored powder	Visual
Specific Gravity	1.51	Typical

> APPLICATIONS

Uses: Fast curing primary accelerator suitable for use in most polymers. MBT acts as a retarder in CR based compounds. Acts as a mild peptizer for NR and CR rubbers. Applications include motor cycle/scooter tires, butyl tubes, belts, retreads, footwear, hot air cured products, hoses, cables and miscellaneous molded and extruded rubber products.

Polymers: Natural rubber and most synthetic elastomers.

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

Cure Effect: Promotes a flat fast cure rate. MBT is a moderately low activation temperature - very active above 115°C.

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

Color: MBT itself does not discolor white compounds; however, a slight yellowing effect is observed when white colored products are exposed to sunlight.

>FDA REGULATIONS

Adhesive component, indirect food additive 21 CFR 175.105(c) (5)

Food contact surface component 21 CFR 177.2600(c) (4), not to exceed 1.5% by weight of rubber product.

Ophthalmic and topical dosage form animal drug 21 CFR 524.1376

Slimicides, paper packaging material 21 CFR 176.300(c)



Technical Data Sheet

> PACKAGING AND STORAGE

Packaging: 25 kg (55.1) lb. bags.

Shelf Life: 2 years if stored as indicated below.

Storage: Store in original unopened packages in a cool dry environment.

Specification Date: April 14, 2011 (Supersedes September 23, 2004)