SOVEREIGN CHEMICAL COMPANY
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Product Bulletin

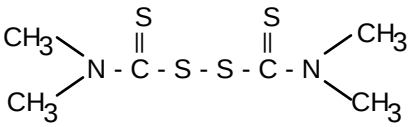
Sovchem® TMTD Oiled Powder

Manufacturer: **Sovereign Chemical Company**

Classification: Thiuram accelerator and sulfur donor

Chemical Composition:

Chemical Structure:



Empirical Formula: $C_6H_{12}N_2S_4$
Molecular Weight: 240
CA Nomenclature: Tetramethylthiuram disulfide
Synonym Nomenclature: Thioperoxydicarbonic diamide tetramethyl, thiram

Physical Data

Specification Properties	***Value***	***Test Method***
Assay, % by mass	96 minimum	Supplier
Melting Point (initial), °C	142.0 minimum	ASTM D1519
Melting Point (final), °C	157.0 maximum	ASTM D 1519
Heat loss, % by mass	0.50 maximum	ASTM D4571
Ash Content, % by mass	0.35 maximum	ASTM D4574
Sieve retention, % on 100 mesh	0.20 maximum	ASTM D5461
Additive, %	1.0—2.0	

Typical Properties	***Value***	***Test Method***
Physical Appearance	White to off-white powder	Visual
Specific Gravity	1.42	Typical

Applications

Uses: Fast-curing ultra accelerator for NBR, EPDM and most other polymers. May be used alone or with thiazoles. Cure modifier in CR: retards G types, accelerates W types. TMTD can also act as a sulfur donor for semi-EV and EV type cure systems. Vulcanizates that are cured with TMTD used as an accelerator with little or no sulfur have excellent aging properties
Polymers: Natural rubber and most synthetic elastomers.
Synergism: Synergistic with thiazole accelerators.
Cure Effect: Gives a tight cure with good compression set, high modulus, good color and age resistance.
Crosslink Type: TMTD promotes mono-sulfidic crosslinks which give good aging properties.
FDA Regulations: 177.2600 Food contact surface component
175.105 Adhesives component, indirect food additive

Packaging and Storage

Packaging: 25 Kg (55.1 lb) bag
Shelf Life: 2 years if stored as indicated below
Storage: Store in unopened original packaging in a cool dry place.

Specification Date: June 1, 2011 (supersedes: September 23, 2004)