

**SOVEREIGN CHEMICAL COMPANY**

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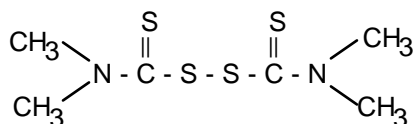
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## Dimacit TMTD Oiled Powder

**Manufacturer:** Taminco, Inc.**Classification:** Thiuram accelerator and sulfur donor**Chemical Composition:**

Chemical Structure:



Empirical Formula: C<sub>6</sub>H<sub>12</sub>N<sub>2</sub>S<sub>4</sub>  
Molecular Weight: 240.4  
CA Nomenclature: Tetramethylthiuram disulfide  
Synonym Nomenclature: Thioperoxydicarbonic diamide tetramethyl, thiram

**Physical Data****Specification Properties**

	<b>Value</b>	<b>Test Method</b>
Assay, % by mass	96.0 minimum	09E3111
Melting Point (initial), °C	142.0 minimum	09E3113
Heat loss, 60°C (%)	0.30 maximum	09E3112
Ash Content, % by mass	0.4 maximum	09E3119
Wet sieve retention % on 150 µm	0.05 maximum	09E3135
Petroleum ether extract, %	1.0 – 2.75	09E3136

**Typical Properties**

Physical Appearance	Cream-white powder	Visual
Specific Gravity	1.42 g/cm <sup>3</sup>	Typical

**Applications**

**Uses:** Fast-curing ultra accelerator for NBR, EPDM and most other polymers. **TMTD** 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.) multi ply paper bag (on order), 20 kg multi ply valve bag with inner polyethylene ply, big bags (IBC's).

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

**Storage:** Stored in unopened original packaging in a cool dry place.

Specification Date: July 13, 2011 (Supersedes: March 13, 2008)