

**SOVEREIGN CHEMICAL COMPANY**

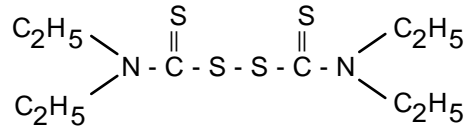
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Sovchem® TETD Crystal**Manufacturer:** Sovereign Chemical Company**Classification:** Thiuram Accelerator**Chemical Composition:**

Chemical Structure:



Empirical Formula: C₁₀H₂₀N₂S₄
Molecular Weight: 297
CA Nomenclature: Tetraethyl thiuram disulfide
Synonym Nomenclature: Bis (Diethylthiocarbamyl) Disulfide

Physical Data**Specification Properties**

| | Value | Test Method |
|------------------------|----------------|--------------------|
| Assay, % by mass | 99.0% minimum | Supplier |
| Initial Melting Point | 64.0°C minimum | GB11409.1 |
| Final Melting Point | 69.0-73.0°C | GB11409.1 |
| Ash Residue, % by mass | 0.3% maximum | GB11409.7-89 |
| Heat Loss, % by mass | 0.3% maximum | GB11409.4 |

Typical Properties

| | Value | Test Method |
|------------------|-----------------------|--------------------|
| Specific Gravity | 1.30 | Typical |
| Appearance | Light yellow crystals | Visual |

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. TETD can also act as a sulfur donor for semi-EV and EV type cure systems. Vulcanizates that are cured with TETD used as an accelerator with little or no sulfur have excellent aging properties. TETD has more scorch safety than TMTD but you need approximately 10% more TETD to get the same state of cure as TMTD.

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: TETD promotes mono-sulfidic crosslinks which give good aging properties.

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: August 17, 2010 (Supersedes May 5, 2010)