

Sovchem[®] TETD Crystal

Manufacturer: Sovereign Chemical Company
Classification: Thiuram Accelerator
CA Nomenclature: Tetraethyl thiuram disulfide
Chemical Synonyms: Bis (Diethylthiocarbamyl) Disulfide

| Specification Properties | Value | Test Method |
|-----------------------------|-----------------------|--------------|
| Ash Content, % | 0.3 maximum | GB11409.7-89 |
| Assay, % | 99 minimum | Supplier |
| Heat Loss, % | 0.3 maximum | GB11409.4 |
| Melting Point (Final), °C | 69-73 | GB11409.1 |
| Melting Point (Initial), °C | 64 minimum | GB11409.1 |
| Typical Properties | Value | Test Method |
| Physical Form | Light yellow crystals | Visual |
| Specific Gravity | 1.30 | 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. 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.) 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: August 17, 2010 (Supersedes May 5, 2010)