

**SOVEREIGN CHEMICAL COMPANY**

1225 West Market St., Akron OH 44313

Phone: 330-869-0500, Fax: 330-869-0518

www.sovchem.net

**Sovchem® DPTT Oiled Powder****Manufacturer**

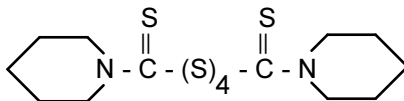
Sovereign Chemical Company

**Classification**

Thiuram Accelerator

**Chemical Composition**

Chemical Structure



Empirical Formula

 $C_{12}H_{20}N_2S_{n+2}$  (n=4 or 6)

Molecular Weight

384

CA Nomenclature

Dipentamethylene thiuram tetrasulfide

Synonym Nomenclature

Piperidine, 1,1'-(tetrathiodicarbonothioyl) bis

**Physical Data****Specification Property****Value****Test Method**

Melting Point (Initial), °C

108.0 Minimum

GB11409.1

Melting Point (Final), °C

115.0-121.0

GB11409.1

Heat Loss, % by mass

0.40 Maximum

GB11409.4

Ash Content, % by mass

0.40 Maximum

GB11409.7-89

Sieve Residue, % on 150  $\mu$ 

0.10 Maximum

GB11409.5-89

Sieve Residue, % on 63  $\mu$ 

0.50 Maximum

GB11409.5-89

Additive, %

1.0-2.0

**Typical Properties****Value****Test Method**

Physical Form

Light Yellow powder

Visual

Specific Gravity

1.50

Typical

**Applications**

**Uses:** Primary accelerator for butyl and CSM. Secondary accelerator for NR, SBR, EPDM, CR and NBR.

**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:** DPTT promotes mono-sulfidic crosslinks.

**Packaging and Storage**

**Packaging:** 25 Kg (55.1 lb.) bag.

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

**Storage:** Store in unopened original packaging in a cool dry place away from direct sunlight.

Specification Date: August 27, 2015 (Supersedes: June 1, 2011)