



SOVEREIGN CHEMICAL COMPANY

1225 West Market St., Akron OH 44313

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

www.sovchem.net

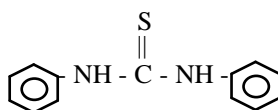
Sovchem® DPTU Powder

Manufacturer: Sovereign Chemical Company

Classification: Thiourea Accelerator

Chemical Composition:

Chemical Structure:



Molecular Formula: C₁₃H₁₂N₂S
Molecular Weight: 228 g
CA Nomenclature: N-N'-diphenyl thiourea
Synonym Nomenclature: Diphenyl thiourea
Thiourea, N,N'-Diphenyl
1,3-Diphenyl-2-thiourea

Physical Properties

Specification Properties	Value	Test Method
Melting point (Initial), °C	148.0 Minimum	GB11409.1
Heat Loss, % by mass	0.30 Maximum	GB11409.4
Ash Content, % by mass	0.30 Maximum	GB11409.7-89
Sieve Retention, 150 micron, %	0.10 Maximum	GB11409.5-89
Sieve Retention, 63 micron, %	0.50 Maximum	GB11409.5-89
Assay, %	98.0 Minimum	

Typical Properties	Value	Test Method
Physical Form	White powder	Visual

Applications

Uses: Slowest of all thiourea type accelerators. **Sovchem® DPTU Powder** can be used in dry rubbers and latex. **Sovchem® DPTU Powder** is effective at low temperatures and can be used in room temperature vulcanizations of thin articles such as coated fabric. **Sovchem® DPTU Powder** can be used in tire retreads, cellular articles, coated fabrics thick articles, glues and electrical tapes. Its vulcanizates have good heat stability.

Polymers: CR, EPDM

Cure Effect: Fast accelerator.

Dosage:

Use 1 to 2.5 phr with 3 to 5 phr Sulfur

Use 1 to 5 phr in polychloroprene latex

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.

Specification Date: March 29, 2011 (Supersedes: January 25, 2011)