



SOVEREIGN CHEMICAL COMPANY

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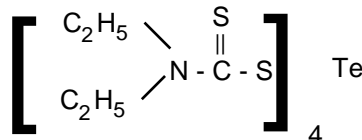
Sovchem® TDEC

Manufacturer: Sovereign Chemical Company

Classification: Dithiocarbamate Accelerator

Chemical Composition:

Chemical Structure:



Empirical Formula: C₂₀H₄₀N₄S₈Te
 Molecular Weight: 721
 CA Nomenclature: Tellurium diethyldithiocarbamate
 Synonym Nomenclature: Tellurium, tetra (diethyldithiocarbamate)

Physical Data

Specification Properties

	Value		Test Method
	Powder	Oiled Powder	
Melting Point (initial), °C	105.0 minimum	105.0 minimum	GB11409.1
Heat Loss, % by mass @ 60°C	0.50 maximum	0.50 maximum	GB11409.4
Sieve Retention, 150 μ m	0.1 maximum	0.1 maximum	GB11409.5-89
Sieve Retention, 63 μ m	0.5 maximum	0.5 maximum	GB11409.5-89
Tellurium content, %	16.5-19.0	16.5-19.0	Supplier
Additive, %		2.0 maximum	Supplier

Typical Properties

	Value	Test Method
Color	Yellow	Visual

Applications

Uses: Ultra accelerator that is activated at low temperatures. Can be used as a primary and a secondary accelerator.

Polymers: Natural rubber and most synthetic elastomers. Also used in latex. Especially good with slow curing polymers such as EPDM and butyls.

Synergism: TDEC is synergistic with thiazoles where it is used as a secondary accelerator. Thiurams can be used to slightly delay the scorch of dithiocarbamates.

Cure Effect: Promotes a fast cure that is activated at low temperatures.

Crosslink Type: Dithiocarbamates promote predominately mono-sulfidic crosslinks that are good for heat aging resistance and low compression set. They promote high crosslink densities.

Packaging and Storage

Packaging: 25 Kg (55.1 lb.) bags.

Shelf Life: 1 year from date of manufacture if stored as indicated below.

Storage: Store in unopened original packaging in a cool, dry, well ventilated area away from direct sunlight.

Specification Date: January 9, 2017 (Supersedes: March 31, 2011).