

**SOVEREIGN CHEMICAL COMPANY**

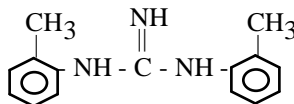
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Sovchem® DOTG Oiled Powder**Manufacturer:** Sovereign Chemical Company**Classification:** Guanidine Accelerator**Chemical Composition:**

Chemical Structure:



Empirical Formula: $C_{15}N_3H_{17}$
Molecular Weight: 234
CA Nomenclature: Guanidine,N,N'-bis(2-methylphenyl)
Synonym Nomenclature: Diorthotolyl Guanidine

Specification Data

Specification Properties	Value	Test Method
Melting Point	170°C Minimum	GB11409.1
Purity	96.0% Minimum	Supplier
Heat Loss	0.40% Maximum	GB11409.4
Ash	0.40% Maximum	GB11409.7-89
Sieve Residue 150 μ	0.1% Maximum	GB11409.5-89
Sieve Residue 63 μ	0.5% Maximum	GB11409.5-89
Oil Content	2.0% Maximum	In Process

Typical Properties	Value	Test Method
Physical Form	Grayish White powder	Visual
Specific Gravity	1.10	Typical

Applications:

Description: Non-staining thiazole and sulfenamide booster, accelerator. Non-nitrosoamine generating. More active than DPG. Can be used in curing Vamac G (registered trademark of Dupont).

Polymers: Natural rubber and most synthetic rubbers.

Synergism: Synergistic effect with thiazoles, sulfenamides and thiurams.

Cure Effect: Excellent secondary accelerator for boosting thiazoles and sulfenamides. Slow curing primary accelerator for natural rubber but too slow for synthetic rubbers. DOTG has more scorch safety than DPG. Need slightly less DOTG than DPG to get the same state of cure.

Crosslink Type: DOTG produces predominately poly-sulfidic crosslinks which maximizes the tear strength of its vulcanizates.

Packaging and Storage

Packaging: 20 Kg (44.1 lb.) paper bags.

Shelf Life: 2 years if stored as indicated below.

Storage: Store in unopened original packaging in a cool dry place.

Specification Date: August 25, 2010 (Superseded: New)