

# Sovchem<sup>®</sup> DOTG Oiled Powder

Manufacturer: Sovereign Chemical Company  
 Classification: Guanidine Accelerator  
 CA Nomenclature: Guanidine,N,N'-bis(2-methylphenyl)  
 Chemical Synonyms: Diorthotolyl Guanidine

Specification Properties	Value	Test Method
Ash Content, %	0.4 maximum	GB11409.7-89
Heat Loss, %	0.4 maximum	GB11409.4
Melting Point, °C	170 minimum	GB11409.1
Oil Content, %	2.0 maximum	In Process
Purity, %	96 minimum	Supplier
Sieve Residue 150 μ, %	0.1 maximum	GB11409.5-89
Sieve Residue 63 μ, %	0.5 maximum	GB11409.5-89
Typical Properties	Value	Test Method
Physical Form	Grayish white powder	Visual
Specific Gravity	1.10	Typical

## > APPLICATIONS

**Uses:** Non-staining thiazole and sulfenamide booster, accelerator. Non-nitrosamine 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 (44.09 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 25, 2010