

Sovchem[®] DPG Granule

Manufacturer: Sovereign Chemical Company
 Classification: Guanidine Accelerator
 CA Nomenclature: Guanidine, N, N' – diphenyl
 Chemical Synonyms: Diphenylguanidine

Specification Properties	Value	Test Method
Ash Content, % @900°C	0.3 maximum	ASTM D4574
Heat Loss, % @60°C	0.3 maximum	ASTM D4571
Melting Point (Final), °C	150 maximum	ASTM D1519
Melting Point (Initial), °C	144 minimum	ASTM D1519
Purity, %	96 minimum	ASTM D5054
Typical Properties	Value	Test Method
Physical Form	White to gray granules	Visual
Specific Gravity	1.18	Typical

> APPLICATIONS

Uses: Thiazole and sulfenamide booster, accelerator. Non-nitrosamine generating. Can replace TMTD in many applications. Excellent accelerator for curing thick rubber articles.

Polymers: Natural rubber and most synthetic rubbers.

Synergism: Synergistic effect with thiazoles, sulfenamides and thiram.

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

Crosslink Type: DPG 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: July 19, 2022 (Supersedes February 16, 2011)