



Chemicals Corp.

Technical Data Sheet

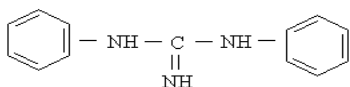
DPG

Diphenyl guanidine

CAS Number: 102-06-7

Molecular weight: 211.27

Molecular formula: C₁₃H₁₃N₃



PRODUCT INFORMATION

PRODUCT SPECIFICATIONS		GRANULES	OIL POWDER	POWDER
Appearance		Grey-white granules	Grey-white oil powder	Grey-white powder
Melting Point	°C min	145.0	145.0	145.0
Loss on drying	% max	0.30	0.40	0.30
Ash	% max	0.30	0.40	0.30
Residue on sieve (63µm)	% max	-	0.50	0.50
Residue on sieve (150µm)	% max	-	0.10	0.10
Oil content	%	-	0.0 – 2.0	-
<u>Typical properties</u>				
Density	g/cm ³	1.08-1.19		
<u>Packaging</u>				
Bag		25kg (55 lbs)		
Pallet		500kg or 600kg (1102 lbs or 1323 lbs)		

FUNCTION

DPG functions as a mid-speed vulcanizing accelerator for natural rubber or synthetic rubber.

APPLICATIONS AND PROPERTIES

- DPG is used as a secondary accelerator with thiazoles and sulphenamides in NR and SBR compounds.
- DPG can be used in latex as a secondary gelling agent (foam stabilizer) in the silico-fluoride foam process.
- Exhibits better storage stability than thiurams and dithiocarbamates, but is not as active.
- Material is odourless and non-poisonous.
- Soluble in chloroform, toluene, benzene and ethanol.
- Insoluble in gasoline and water.
- DPG is regulated for use under the following sections of FDA 21 CFR:
177.2600 – Rubber Articles Intended for Repeated Use in Food Contact.

STORAGE

Material should be stored in a cool, dry, well ventilated area, away from high temperatures. The maximum recommended storage life is 3 years when stored under normal conditions.

HANDLING PRECAUTIONS

For detailed information on toxicological properties and handling precautions, please refer to the current Safety Data Sheet. This information is available by request from **SunBoss Chemicals Corp.**

[Revised: November 6, 2014 by kk]