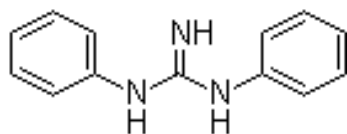


# ACTMIX DPG-80GE F140

## Accelerator DPG (D)

A  
C  
T  
I  
V  
E  
  
M  
A  
T  
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R  
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A  
L



1,3-diphenylguanidine

C<sub>13</sub>H<sub>13</sub>N<sub>3</sub>

M.W.: 211

CAS: 102-06-7

EINECS: 203-002-1

### PROPERTIES:

DPG can lead to a very slow start of vulcanization and relatively slow vulcanization rate but can not be applied to light-colored products due to its ability of slight discoloration except for activator. Combination with effective antioxidants is necessary due to poor resistance of thermo-oxidation ageing of vulcanizate when DOTG is used alone. DPG can effectively activate thiols accelerators but has no accelerating effect on vulcanization of IIR and EPDM.

### DOSAGE:

Primary accelerator: 1-2phr with 2.5-3.5phr sulfur;  
Secondary accelerator: 0.1-0.25phr with 0.75-1 thiols accelerators and 2.5phr sulfur.

### APPLICATIONS:

Rubber industrial products with white fillers.

### TYPICAL VALUES:

Melting point: Min 145°C  
Purity: Min 96%  
Ash content: Max 0.4%  
Volatile content: Max 0.3%  
63µm sieve residue: Max 0.1%

M  
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S  
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H

PRODUCT	Active Content (%)	Color	Filtration (µm)	Binder	Mooney ML (1+4) 50°C	Density (g/cm <sup>3</sup> )
<b>Actmix® DPG-80GE F140</b>	80	Grey	140	EPDM/EVM	50	1.05
* Binder type can be customized. Except EPDM/EVM, others binders, such as NBR, SBR, AR, ECO also can be available for.						
<b>SAFETY&amp;TOXICITY:</b>						
Please refer to related MSDS.						
<b>PACKAGING&amp;STORAGE:</b>						
Net weight 25kg/carton lined PE bag; Net weight 600 kg/pallet.						
Shelf-life: 1 year in its original packaging						
Stored in a dry and cool place.						

### Compared to traditional DPG powders, Actmix®DPG-80GE F140 allows:

- Dust free products with a complete filtration up to 100µm, no skin sensitization, health guard of operators.
- Effective guarantee of activity of DPG due to pre-dispersed masterbatch.
- Tack free products at room temperature, convenience and accuracy on ingredients.
- Lower Mooney viscosity at lower temperature (50°C), higher quality of dispersion.
- Impurity free, blocked filter free of extrusive products, scrap rate reduction and higher productivity thanks to filtration.
- Wider compatibility with other elastomers.

G: granule, P: plate, E: EPDM binder, N: NBR binder, S: SBR binder, A: ACM binder, EO: ECO binder, F140: filtration and micron number of filter

The information contained in this leaflet is based on tests carried out by our laboratories and data selected from references. Therefore it is not valid legally and does not signify any guarantee to customers of successful applications of the product according to their own formulas. However, our company will offer professional services in technology at utmost to facilitate customers to achieve expected purpose of product applications.

**Actmix®DPG-80GE F140**

**TECHNICAL DATA SHEET (TDS) version 1.3**

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