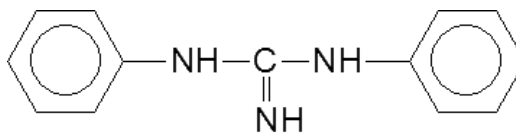


## DPG (Guanidine Accelerator)

- **DIPHENYL GUANIDINE**
- **C<sub>13</sub>H<sub>13</sub>N<sub>3</sub>**
- **Molecular Weight: 211**
- **CAS: 102-06-7**
- **EINECS: 203-002-1**
- **REACH registration: 01-2119519144-47-0000**



| PRODUCT  | Purity* (%) | Melting point (°C) min* | Specific gravity | Natural colour  | Appearance                          | Oil (%) | Remarks  |
|----------|-------------|-------------------------|------------------|-----------------|-------------------------------------|---------|----------|
| DPG C ②  | 96          | 147                     | 1.19             | White to pink** | Min dusting material                | 1-2     | Staining |
| DPG GC ① | 96          | 145                     |                  |                 | Free-flowing, min. dusting material | 1-2     |          |
| DPG PD ② | 98          | 147                     |                  |                 | Slightly dusting material           | -       |          |

**C: Oil coated powder/GC:Oil coated granules/PD: Non coated powder**

\*Typical values / \*\* Depending on natural variation of DPG

### PROPERTIES

As a primary accelerator for NR, Ekaland™ DPG is very slow and, consequently, rarely used alone. For NR and SBR, it is mainly used as a secondary accelerator or as a booster for thiazoles, but also for sulfenamides (when moderate increases in cure rate are desired).

Ekaland™ DPG increases the speed of cure, gives a vulcanisate of higher modulus, and does not reduce the scorch time too severely. It is typically used in thick rubber parts in order to obtain homogenous curing network. When high level of silica, it helps silanization reaction and increases rubber/filler-bound. Curing time is better because DPG avoids CBS absorption by silica and process is safer thanks to decrease of viscosity.

Moreover, it acts in synergetic effect in CR compound in association with Mixland+® SD.

Owing to discoloration, it is mostly used for dark or black colour products. It imparts a slightly bitter taste so it is unsuitable for applications in the manufacture of food-contact materials.

DPG is a foam stabilizer in the silico-fluoride foam process.

### APPLICATIONS

- Tires: Particularly in silica containing compounds.
- General rubber goods: Thick moulded parts, latex foam, footwear.
- Non rubber: Production of ultramarine blue pigment.

### PACKAGING & STORAGE

- ① Paper bag weight: 20 kg net  
Standard CP1 pallet: 500 kg net
- ② Paper bag weight: 20 kg net  
Standard CP1 pallet: 400 kg net

Shelf-life: **2 years** in its original packaging

Store in a dry and cool place and away from direct sources of heat or sunlight.

### SAFETY & TOXICITY

For detailed information, please refer to our Material Safety Data Sheet.

### NITROSAMINE FREE

**DPG is also available in masterbatch form, under the MIXLAND+® brand name, offering a reduction of industrial hygiene problems and different technical benefits**

The information contained in this leaflet is based on tests carried out by our laboratories and data selected from the literature but shall in no event be held to constitute or imply any warranty or undertaking. No liability whatsoever can be accepted with regard to the handling, processing or use of the products concerned, which must in all cases be employed with regard to all relevant regulations and/or legislation in the country or countries concerned.

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TECHNICAL DATA SHEET

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ARKEMA

# DISCLAIMER FOR MEDICAL DEVICE POLICY

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The product described in the brochure is not Medical grade designated for Medical Device applications.

**Arkema general Medical Devices Policy**

Arkema has implemented an internal Medical Policy regarding the use of Arkema products in Medical Devices applications that are in contact with the body or circulating bodily fluids. Arkema has designated Medical grades to be used for such Medical Device applications. Products that have not been designated as Medical grades are not authorized by Arkema for use in Medical Device applications that are in contact with the body or circulating bodily fluids. In addition, except for limited cases as determined by the Medical Device Policy, Arkema strictly prohibits the use of any Arkema products in Medical Device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. For any use of Arkema's product in Medical Device applications, please contact Arkema's sales network.