



3770 Embassy Parkway, Akron, Ohio 44333

330-535-2100 ♦ 800-321-2260 ♦ Fax 330-535-8947

**RUBBER CHEMICALS
-ACCELERATORS-
GUANIDINES**

**ACCELERATOR DPG
(Diphenyl Guanidine)**

PRODUCT DESCRIPTION:

Accelerator DPG is useful as an accelerator/activator for natural rubber, SBR and NBR. It activates accelerators such as MBT, MBTS and sulfenamides. It is a strong secondary for CBTS, BBTS, OBTS, MBT and MBTS. DPG requires the use of zinc oxide and fatty acids. DPG provides satisfactory processing safety and storage stability to rubber compounds. In light colored goods, it causes a brown discoloration and is not recommended for use in compounds that have contact with food (imparts bitter taste). For best aging results, an antioxidant is required. Suggested dosages of DPG in combination with zinc oxide, stearic acid, and sulfur are as follows:

Natural Rubber.....	0.10- 0.50 phr with sulfenamides or MBTS
SBR.....	0.20 - 0.75 phr with sulfenamides, MBTS or MBT
NBR.....	0.20 - 0.50 phr with CBTS, MBTS

TYPICAL PROPERTIES:

Appearance	non-dusting white powder or pellets
Odor	weak with a bitter taste
Specific Gravity	1.18 (powder) 1.20 (pellets)
Melting Point	143°C minimum
Ash Content	0.4% maximum
Solubility.....	Acetone, methylene chloride, ethyl acetate, ethyl alcohol and benzene. Insoluble in gasoline and water.
Storage Stability.....	Excellent
Dispersion	Very Good

CHEMICAL DISPERSIONS:

Accelerator DPG is also available as Akroform[®] DPG-75/EPR/P and Akroform[®] DPG-80/EPR/P. Polymer bound or encapsulated dispersions are a proven means of upgrading plant safety, efficiency, quality and raw material control.

TLM – 5/8/2018, T-DPG (1675) (1785) (72015) (72025)

Included with its product literature and upon the request of its customers, Akrochem provides product specifications and evaluations, suggested formulations and recommendations and other technical assistance, both orally and in writing (collectively the "Technical Information"). Although Akrochem believes all Technical Information to be true and correct, it makes no warranty, either express or implied, as to the accuracy, completeness, or fitness of the Technical Information for any intended use, or the results which may be obtained by any person using the Technical Information. Akrochem will not be liable for any cost, loss or damage, in tort, contract or otherwise, arising from customer's use of Akrochem products or Technical Information. It is the customer's sole responsibility to test the products and any Technical Information provided to determine whether they are suitable for the customer's needs. Before working with any product, the

customer must read and become familiar with available information concerning its hazards, proper use, storage and handling, including all health, safety, and hygiene precautions recommended by the manufacturer. Nothing in the Technical Information is intended to be a recommendation to use any product, method, or process in violation of any intellectual property rights governing such product, method, or process. No license is implied or granted by Akrochem as to any such product, method, or process. AKROCHEM CORPORATION DISCLAIMS ANY AND ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE, RELATED TO ANY PRODUCTS OR TECHNICAL INFORMATION PROVIDED BY AKROCHEM.