

Rhenocure® DPG

Specialty and standard chemicals

Function

Accelerator for the vulcanization of natural and synthetic rubbers

Product description

Composition:	N,N'-diphenyl guanidine
Appearance:	white to slightly pink powder
Density, 20 °C:	approx. 1.13 g/cm ³
Physiological properties:	see safety data sheet

Use

Mode of action:	Rhenocure DPG is a secondary vulcanization accelerator, frequently used as activator. Since DPG is causing slight discoloration, its use in bright-colored rubber articles is recommendable only under certain conditions. In halogenated rubbers Rhenocure DPG is accelerating the separation of halogens and hence the vulcanization. In the sulfur vulcanization Rhenocure DPG has a highly activating effect on accelerators of the mercapto class as well as on the vulcanization of acrylate rubbers like AEM and ACM with diamines and diamine carbamates. In silica compounds for tires DPG is often used in combination with sulfenamides. Rhenocure DPG provides a very long scorch time and a relatively slow full cure. In IIR and EPDM Rhenocure DPG has only little effect.
Processing:	The high melting point of DPG requires an effective mixing process for a homogeneous dispersion of this accelerator, preferably in an internal mixer. The temperature of the compound should not exceed 80 °C in order to prevent scorch.
Dosage:	As secondary accelerator and activator: normally 0.1-0.25 phr, in acrylate rubber up to 6 phr
Application:	All kinds of technical rubber articles, particularly for parts that have to meet medical or food requirements; special paper grades

Packaging

20 kg carton with PE bag inside on 480 kg skid

Storage stability

In original closed containers under cool and dry conditions 730 days from date of production

Handling

For additional handling information on Rhenocure DPG please consult current safety data sheet.

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