



Technical Data Sheet

Pentocure – DPG

Accelerators

Composition : N,N'-diphenyl guanidine

Specification :

Color	: Off White to White
Appearance	: Powder
Melting Point	: 143 - 149 °C
Ash Content	: 0.5 % Max
Heat Loss	: 0.5 % Max

Dosage :

- As secondary accelerator and activator: normally 0.1-0.25 phr,
- Natural Rubber 0.10- 0.50 phr with sulfenamides or Pentocure – MBTS
- SBR 0.20 - 0.75 phr with sulfenamides, Pentocure – MBTS or Pentocure – MBT
- NBR 0.20 - 0.50 phr with Pentocure – MBTS
- Acrylate rubber up to 6 phr

Uses and Benefits :

- Pentocure – DPG is a secondary vulcanization accelerator, frequently used as activator.
- Pentocure – DPG is causing slight discoloration, its use in bright-colored rubber articles is recommendable only under certain conditions.
- In halogenated rubbers Pentocure – DPG is accelerating the separation of halogens and hence the vulcanization.
- In the sulfur vulcanization Pentocure – 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 Pentocure – DPG is often used in combination with sulfenamides.
- Pentocure – DPG provides a very long scorch time and a relatively slow full cure.
- In IIR and EPDM Pentocure – DPG has only little effect.
- The high melting point of Pentocure – DPG requires an effective mixing process for a homogeneous dispersion of this accelerator, preferably in an internal mixer and the temperature of the compound should not exceed 80 °C in order to prevent scorch.

Packing : 25kg Polylinedpolywoven bag / Polylined paper bag.

Storage stability : Up to 1 Year in normal storage conditions.

Handling : Consult material safety data sheet (MSDS) for additional handling information for Pentocure – DPG.

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