



Technical Data Sheet

Pentocure – MBT

Accelerators

| | | |
|----------------------|---|-----------------------------------|
| Composition | : | 2 - Mercaptobenzothiazole |
| Specification | : | Color : Off white to Creamish |
| | : | Appearance : Powder |
| | : | Melting Point : 175 - 185 °C |
| | : | Ash content : 0.50 % Max |
| | : | Heat Loss : 0.50 % Max |
| | : | Solubility (in Acetone) : Soluble |

Dosage :
• 0.5 – 1.5 phr

Uses and Benefits :

- Pentocure – MBT is a semi ultra fast accelerator for NR, SBR, BR, NBR and other highly unsaturated diene rubbers. It readily disperses in rubber compounds and also acts as a mild peptizer for NR & CR.
- Pentocure – MBT show significant effect Even relatively small dosages and reduce bloom of thiurams and dithiocarbamates.
- Pentocure – MBT also acts as a retarder in CR based compounding formulations.
- Pentocure – MBT has a long curing range and is very active above 115°C.
- Pentocure – MBT gives flat curing characteristics for 'polyisoprene' rubber (e.g. NR) based compounds exhibiting ability to withstand long over cures. However, MBT accelerator is scorchy in nature and the rate and the state of cure achieved is comparatively lower than sulphenamide accelerators. (e.g. CBS & TBBS).
- Pentocure – MBT used alone it exhibits comparatively lower tensile properties and resilience. However, in combination with other accelerators marked improvements are observed.
- Pentocure – MBT is generally avoided in carbon black filled halogenated butyl rubber based stocks due to its scorching tendency; however, the same can be used in light colored Chlorobutyl based compounds for faster cure.
- Pentocure – MBT itself does not discolor white /colored vulcanizates, however; slight yellowing effect is observed when white colored products are exposed to sunlight. The effect of Pentocure – MBT on colored products is very minimal.
- Pentocure MBT dosage kept below 2.5 - 3.0 phr to avoid bloom of dithiocarbamate / thiurams type accelerators in EPDM based rubber compounds.
- Pentocure – MBT and other thiazole class accelerators are particularly preferred for rubber to metal bonding applications due to the absence of any free amines.

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 – MBT.

PUKHRAJ ADDITIVES LLP

An ISO 9001:2008 Certified Company

5B, 5th Floor, Diamond House, Plot No. 515, Behind National College,
TPS III, 35th Road, Bandra (W), Mumbai, Maharashtra - 400 050 (INDIA).

Tel: +91-9833538089/+91-22-26494911/26494912/26494913

Email: info@pukhrajzinculet.com Visit us at: www.pukhrajzinculet.com