



Technical Data Sheet

Pentocure – ZMBT

Accelerators

Composition : Zinc-2-mercaptobenzothiazole

Specification :

| | |
|---------------|--------------------------|
| Color | : Light yellow to yellow |
| Appearance | : Powder |
| Melting Point | : 320 °C Min. |
| Ash content | : 19 – 21 % |
| Heat Loss | : 0.5 Max. |

Dosage :

- In NR Latex/Latex/NR-SBR : 1.0 – 1.5 phr.
- In NR: 1.0 phr.
- In NR-SBR : 0.5 to 3.5 phr

Uses and Benefits :

- Pentocure – ZMBT is a semi-ultra fast accelerator for NR, SBR, NBR, BR and other diene rubbers.
- Pentocure – ZMBT critical cure temperature is approx. 120°C and dry rubber / latex based compounds are vulcanized quickly at 125°C.
- Pentocure – ZMBT is slightly lower than Pentocure – MBT; however, scorch safety is much higher and hence can be used in place of MBT for scorch control.
- Pentocure – ZMBT is mainly used in latex compounding along with Pentocure – ZDC/ Pentocure – ZDBC to improve the state of cure.
- Pentocure – ZMBT improves the ageing characteristics of NR latex based vulcanizates and does not affect the stability of NR latex based compounds.
- Pentocure – ZMBT readily disperses in water in the presence of commonly used dispersing agents (e.g. sodium salt of polymerized alkyl naphthalene sulfonic acid) and is usually used as 50% dispersion in water for latex compounding applications.
- Pentocure – ZMBT has a sensitizing effect on NR latex due to its thixotropic nature and this property favors NR latex foaming in the production of latex foam products. Where this property is not desired, the thixotropic effect can be overcome by stirring.
- Pentocure – ZMBT offer excellent heat resistance to NR rubber vulcanizates in High accelerator-low sulphur cure systems.
- Pentocure – ZMBT also acts as an effective retarder for sulphur cure systems based on Thiurams and dithiocarbamates as primary accelerators.

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 – ZMBT.

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