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## **Technical Data Sheet**

#### **Pentocure – NOBS**

### Accelerators

Composition Specification

- 2-(4-Morpholinothio) benzothiazole
  Color : White to Creamish Appearance : Powder/Granules
  - Melting Point: 80 90 °CAsh content: 0.5 % MaxHeat Loss: 0.5 % MaxInsoluble in Methanol: 0.5 % Max

Dosage

In NR 0.5 – 1.0 phr and In SBR dosages : 1.0 – 1.5 phr.

Uses and Benefits

- Pentocure NOBS is a delayed action sulphenamide accelerator for NR, NR-BR blends, NR-SBR blends and other highly unsaturated synthetic rubber based compounds reinforced with fine particle size furnace blacks prone to excessive heat generation during processing operations.
- Pentocure NOBS Granules exhibit good storage stability and disperse easily in rubber compounds due to comparatively lower melting point.
- Pentocure NOBS is very active above 140°C and offers longer scorch delay; particularly during high temperature processing operations (e.g. extrusion/ calendaring, etc.) as compared to Pentocure CBS for tyre treads or similar high performance rubber compounds.
- Pentocure NOBS exhibit excellent shelf life and retention of cure activity on prolonged storage as compared to other sulphenamide accelerators in rubber compounds.
- At curing temperatures Pentocure NOBS exhibits delayed on- set of cure along with faster cure rate and a very good plateau effect.
- Pentocure NOBS is usually incorporated in the rubber compounds at the end of the mixing cycle and if in case Pentocure NOBS is to be added at a later stage it is sufficient to ensure that the rubber compound is warmed to 80-85°C for achieving excellent dispersion and dissolution of Pentocure NOBS.
- Pentocure NOBS is an excellent accelerator for EPDM cures where long scorch delay and faster cure rate is desired. A cure system of Pentocure NOBS 3.5 phr and Sulphur 1.5 phr may be used for curing products like dock fenders where long scorch delay, excellent stock shelf life and faster cures are needed.
- Pentocure NOBS reduces the blooming tendency of the thiuram cured vulcanizates and contributes to improvements in the state cure if sulphur is incorporated at small dosage.
- Pentocure NOBS based vulcanizates have a typical amine odor and bitter taste and hence Pentocure NOBS is generally avoided for the manufacture of rubber goods intended for repeated contact with food / drugs.

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 - NOBS.

#### PUKHRAJ ADDITIVES LLP An ISO 9001:2008 Certified Company

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