



Technical Data Sheet

Pentocure – TBBS

Accelerators

Composition : N-Tertiarybutyl-2-benzothiazole sulfenamide

Specification :

Color	: Off White to White
Appearance	: Powder/Granular
Melting Point	: 105 - 115 °C
Ash content	: 0.5 % Max
Heat Loss	: 0.5 % Max

Dosage :

- 0.5 - 1.0 phr for conventional cure systems
- 1.5 - 2.0 phr for Semi-EV cure systems.
- 3.0 - 4.0 phr for Low sulphur EV cure systems

Uses and Benefits :

- Pentocure – TBBS is a delayed action sulphenamide accelerator for NR, SBR, BR, NBR and other sulphur / sulphur donor cured diene rubbers.
- Pentocure – TBBS exhibits very good storage stability as compared to other sulphenamide accelerators and Pentocure – TBBS Granular form disperse easily in rubber compounds.
- Pentocure – TBBS is very active above 140°C, and it offers better scorch safety as compared to Pentocure – CBS.
- Pentocure – TBBS is usually incorporated in the rubber compound at the end of mixing cycle when the stock temperature is above the melting point of Pentocure – TBBS if in case, Pentocure – TBBS is to be added at a later stage addition in the form of Pentocure – TBBS Rubber master batch prepared above its melting point is recommended to ensure proper dispersion and dissolution of the accelerator.
- Pentocure – TBBS also decomposes rapidly in the presence of hot steam and hence preferred for the manufacture of open steam cured rubber products requiring faster onset of cure. However, due to delayed onset of cure sulphenamide accelerators are not preferred in hot air cured products in the absence of strong secondary accelerators.
- Pentocure – TBBS is itself non-staining so when higher dosages are used slight yellowing effect may be observed on white / light colored rubber products on exposure to sun light.

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 – TBBS.

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