



Technical Data Sheet

Pentocure – CBS

Accelerators

Composition Specification

: N-cyclohexyl-2 benzothiazolesulfenamide	
: Color	: Creamish to White
Appearance	: Powder/Granules
Melting Point	: 98 - 104 °C
Ash content	: 0.5 % Max
Heat Loss	: 0.5 % Max

Dosage

- :
- Pentocure – CBS is in the range of 0.5-1.0 phr for conventional cure systems, 1.5-2.0 phr for Semi-EV cures and 3.0-5.0 phr for low sulphur EV cures.
- Pentocure – CBS is used at 1.0 phr dosage as an effective retarder for sulphur-less cures based on thiuram accelerators.

Uses and Benefits :

- Pentocure – CBS is an accelerator with delayed action sulphenamide for NR, SBR, BR, NBR and other sulphur / sulphur donor cured diene rubbers.
- Pentocure – CBS is very active above curing temperature of approx. 140°C and hence offers very good scorch safety during rubber compound processing operations (e.g. extrusion, calendaring, etc.) and improves the storage life of processed rubber stocks as compared to thiazole accelerators.
- Pentocure – CBS is preferred when higher loadings of tread grade furnace blacks, (which are basic in nature and generate substantial heat during processing of NR/BR/SBR based stocks) are used.
- Pentocure – CBS is accelerators are usually incorporated in the rubber compound at the end of mixing cycle when the temperature is above the melting point of the accelerator to ensure proper dispersion. However; generation of excessive heat is avoided to prevent decomposition of sulphenamide accelerators. In case, the sulphenamide accelerators are to be added at a later stage; addition in the form of sulphenamide-rubber master batch (prepared above the melting point of sulphenamide accelerator) is recommended.

Packing

: 25kg Polylined poly woven bag / Polylined paper bag.

Storage stability

: Upto 1 years in normal storage conditions.

Handling

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

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