



## Technical Data Sheet

### Pentocure – ZDBC

### Accelerators

<b>Composition</b>	:	Zinc Dibutyldithiocarbamate
<b>Specification</b>	:	Color : Off White to White
	:	Appearance : Powder
	:	Melting Point : 104 – 110 °C
	:	Ash content : 17 - 18 %
	:	Heat Loss : 0.5 % Max
	:	Solubility (in Chloroform) : Soluble

**Dosage** :

- In NR latex : 0.2 – 1.5 phr and In EPDM: 1.0 – 2.5 phr
- NR – EPDM: 0.5 – 1.0 phr and NR/SBR/IR: 0.5 – 5.0 phr

**Uses and Benefits** :

- Pentocure – ZDBC is mainly used as a non-blooming, non-staining ultra fast primary accelerator or as a booster accelerator in NR / Synthetic rubber latex compounds and dry rubber compounds for the manufacture of transparent / bright colored bloom free rubber products.
- Pentocure – ZDBC as a primary accelerator is very active above 70°C in NR latex compounds and thus is faster than ZDMC or ZDEC as far as latex compounding is concerned.
- Pentocure – ZDBC is a slower accelerator as compared to ZDMC / ZDEC at equal dosage due to its higher molecular weight in dry rubber compounds.
- Pentocure – ZDBC exhibits scorching tendency, faster cure rate and higher crosslink density in combination with thiazoles and its produces bloom free vulcanizates having very good ageing resistance in the presence of antioxidants.
- Pentocure – ZDBC is effective in the absence of Zinc oxide and thus offers excellent transparency to finished products in NR latex based compounds.
- Pentocure – ZDBC disperses easily in latex as well as dry rubber based compounds and does not decompose in the absence of sulphur.
- Pentocure – ZDBC is extensively used in sulphur cure systems designed for curing EPDM rubber based compounds at 1.5 to 3.0 phr levels along with other accelerators such as MBT / TMTD / DPTT to manufacture bloom free products.
- Pentocure – ZDBC is also used as an effective antioxidant in the manufacture of hot melt adhesives (HMAs), thermoplastic elastomers (TPEs), unvulcanized rubber cements and adhesives.

**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 – ZDBC.

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