

# Technical Data Sheet

## DIMACIT ZDMC OT

### Chemical Synonym

Zinc dimethyldithiocarbamate, Bis(dimethyldithiocarbamoto-S,S')zinc

### Applications

- Rubber modification

### Product Description

ZDMC (Zinc dimethyldithiocarbamate) is a creamy-white powder for use in the rubber industry.

ZDMC OT is widely used in rubber processing as an ultra accelerator for low-temperature cures, either alone or as an activator for other accelerators, chiefly the thiazoles.

It can be used:

- Without sulphur (2 – 4% on the weight of the gum)
- With sulphur in conjunction with zinc oxide and fatty acid as activators (0.1 – 1 % TMTD on the weight of the gum)
- In conjunction with accelerators such as mercaptobenzothiazole (0.25 – 0.5 TMTD on the weight of the gum)

### Typical Properties

Property	Typical Value, Units
<b>General</b>	
Appearance	Creamy-white powder
Density	+/-0.40 g/mL
Molecular Formula	C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> S <sub>4</sub> Zn
Molecular Weight	305.8
Octanol-water partition coefficient, log Pow	1.086
Solubility	Insoluble in water

### Packaging

- 25 kg multi ply paper bag
- Big bags 500 kg (on order)

### Storage

Store in a dry well-ventilated place away from foodstuffs. No reduction in the assay of the active substance has been observed after storage for 2 years in the original packing under normal conditions.

Use explosion-proof electrical equipment.

Protects against acids and substances liberating acids. In the event of accidental spillage the split product should be collected for incineration. Notify the appropriate authorities immediately if there is any risk of contamination of watercourses.

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