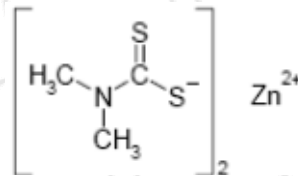


Zinc dimethyldithiocarbamate

ZDMC C & OT



Technical Data Sheet

Chemical synonym | Zinc dimethyldithiocarbamate
Bis(dimethyldithiocarbamato-S,S')zinc

General information | **CAS number** : 137-30-4
Molecular formula : C₆H₁₂N₂S₄Zn
Molecular weight : 305.8
REACH registration nr : 01-2119492295-30-0000

Description | A creamy-white powder for use in the rubber industry.

Principal Applications | 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).

Specifications

Specifications	ZDMC C	ZDMC OT	Test methods
Assay (%)	Min. 98	Min. 92	Titration
Loss on drying at 80°C (%)	Max. 0,30	Max. 0,50	Weight loss
Water content			
Petroleum ether extract (%)	/	1,00 – 3,00	Extraction
Sulphates (%)	/	Max. 4	Conductivity
Melting point (°C)	Min. 248	Min. 240	DSC
Wet sieving test, residue on 150 µm sieve (%)	Max. 0,050	Max. 0,100	Cipac MT59.3

Physical & Chemical Properties | Partition coefficient :log po/w :1.086 (n-octanol/water)
Solubility :insoluble in water
Density :+/- 0.40 g/ml

Packaging | • 25 kg multi ply paper bag
• Big bags 500 kg (on order)

ZDMC-C & OT

TDS 51036 & 51038/02-2013 • supersedes TDS 51036 & 51038/01-2013 •

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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.

Fire Risk

The product is combustible at high temperature. Fire or heating can cause decomposition to toxic vapors (nitrogen oxides, carbon oxides and sulphur oxides).

See Material Safety Data Sheet for:

Transport Regulations, Toxicology and Ecotoxicology.

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