

Technical Data Sheet

TMTD C

Chemical Synonym

Tetramethylthiuram disulfide, Bis (dimethyldithiocarbamoyl) disulfide, Thiram, Thiuram

Applications

- Rubber modification

Product Description

TMTD 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
General	
Appearance	Creamy-white powder
Bulk Density	+/-0.3
Molecular Formula	C ₆ H ₁₂ N ₂ S ₄
Molecular Weight	240.4
Solubility (g/l) at 30°C in:	
Acetone	77
Benzene	48
Chloroform	375
Water	<0.05

General

Inorganic acids break down Dimacit TMTD into carbon disulfide and hydrogen sulphide.

Packaging

- 20 kg multi ply valve bag with inner polyethylene ply
- Big bags (IBC's)

Storage

Store in 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.

Protect against acids and substances liberating acids.

In the event of accidental spillage the spilt product should be collected for incineration. Notify the appropriate authorities immediately if there is any risk of contamination of watercourses.

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