



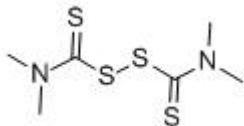
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Technical Data Sheet

Rubber Accelerator TMTD (TT)

Product Information

Chemical Name	Rubber Accelerator TMTD (TT)
CAS #	137-26-8
EINECS	205-286-2
Formula	C ₆ H ₁₂ N ₂ S ₄
Molecular Weight	240.43
Synonyms	Tetramethyl thiuram disulfide, Thiuram, TMTD, TT
Chemical Structure	



Description

Tetramethyl thiuram disulfide, known as rubber Accelerator TMTD (TT), is a white or light gray powder or granule with its density in 1.29. It is soluble in benzene, acetone, chloroform, CS₂ partly soluble in alcohol, diethyl ether, CCl₄ insoluble in water, gasoline and alkali with lower concentration.

Physical Properties

Appearance	White to pale powder or granule
Melting point, °C	156-158
Water solubility, mg/ml	16.5
Flashing point, °C	89
Boiling point, °C	129

Specification

TMTD Powder:

Appearance	Gray-white powder
Initial M.P.	≥142°C

Loss on drying	≤0.30%
Ash	≤0.30%
Residues on 150 μ m sieve	≤0.10%
Residues on 63 μ m sieve	≤0.50%

TMTD Granule:

Appearance	Gray-white granule
Initial M.P.	≥142℃
Loss on drying	≤0.40%
Ash	≤0.30%

Applications

For rubber industry, it is used as vulcanization accelerator mixed up with thiazole accelerator. Along with other accelerators, it is also used as continuous glue accelerator. Over 100℃, it could slowly break out free sulfur, so it is also used as curing agent. Production with accelerator TMTD has strong performance of aging-resistant and heat resistance. So it is used for the production of natural rubber and synthesis glue. For example, it is used for the production of tyre, tyre tube, electric cables, and rubber shoes.

For agriculture, it is used as a broad-spectrum fungicide.

For aviation purpose, it is used for the additive of aviation lubricant oils.

Packaging

25kg per bag, 1*20" container loads 14 metric tons without pallets.

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