

**SIN RUBTECH® POLYMER BOUND
PREDISPERSED TMTD – 70G****Product Description**

Composition:	A proprietary predispersed 70% tetramethylthiuram disulphide in a 30% elastomeric / processing aids binder specially formulated for use in EPDM, NR, SBR, BR formulations
Appearance:	Off - White Granules.
Density:	Approx. 1.15 g/cm ³ .
ML 1+4 @ 50°C	< 70
Moisture Content:	< 1.0 %
Melting Point: (of active TMTD)	> 146 °C
Storage Stability:	At least 2 years under normal storage conditions.
Packing:	18 kg nett in sealed PE bag in a carton box.

Recommendations and Applications

Predispersed TMTD-70G is recommended where a more eco-friendly material, higher productivity and better dispersion is required. This often translates to lower bottom-line costing.

The active ingredient TMTD is an ultra fast accelerator, slower than ZDEC, but faster than MBT. TMTD has wide applications as a primary accelerator, secondary accelerator and even as a sulphur donor (TMTD has 13.3% active sulphur) in Semi-EV and EV cure systems. During vulcanisation with TMTD, no free sulphur is formed, and this gives TMTD a use as an accelerator / sulphur donor in applications where e.g. silver and copper reactions with free sulphur are not wanted.

Combination of TMTD with sulphenamides gives a good combination of surprisingly improved scorch safety, faster cure and higher crosslink density.

TMTD like all thiurams and dithiocarbamates has no odour, no bitter taste, is non-discolouring and non-staining. However thiurams and dithiocarbamates are very polar chemicals and in non-polar rubber like NR, BR & EPDM, they have a tendency to bloom and TMTD is the most polar amongst the thiurams. Where bloom is not tolerated, TMTD-70G should be used in non-polar rubber at dosage below 0.2 PHR and only after service proven.

Dosage

Recommended initially to try TMTD-70G in weight-to-weight substitution of TMTD powder. Dosage can be from 0.20 PHR to 4.25 PHR.

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