

## Technical Data Sheet

### Product Name: JC EPMix TMTD-80

**Chemical Composition:** Tetra methyl Thiuram with disulfide elastomer binder with dispersing agents.

**Product Description:** JC EPMix TMTD-80 is accelerator for the vulcanization of natural and synthetic rubber, curing agent for the sulfur less recipe/ low sulfur vulcanization.

Sr. No.	Properties	Unit	Specifications
1	Appearance	-	White/off white granules
2	Tetra methyl Thiuram	%	80
3	Elastomer binder with Dispersing agents	%	20
4	Specific Gravity	-	≤ 1.3
5	Mooney Viscosity (ML 1+4@100 °C)	-	≤50
6	Ash Content	%	≤1.0

**Advantage:**

Stock optimization  
 End product consistency  
 Eliminates material storage & logistics issue  
 Saving of energy, time & labor Quality enhancement

**Standard Packing:** 25 kg carton

box with LDPE linear inside on 1000 kg skid  
 Shelf life: 1 year from D.O.M  
 Storage: In original closed containers under cool and dry conditions

**Dosage:**

**Primary:**

0.1-1 Phr TMTD + 3-1 Phr sulfur

Secondary (in mechanical rubber articles):

2.75-1.75Phr sulfur and 0.05-0.25 Phr TMTD + 1-1.5 Phr Dibenzothiazyl disulfide

Without free sulfur (for heat resistant mixes):

2.5-4 Phr TMTD + 0.5 Phr mercaptobenzothiazole

**Mode of Action:** JC EPMix TMTD-80 causes very rapid but scorch-safe vulcanization of natural and synthetic rubbers. If Mercapto or Sulfenamide accelerators are added, the vulcanization undergoes retardation. In such cases they have little effect on the degree of cross-linking; they mainly reduce the scorch rate and increase total curing time. JC EPMix TMTD-80 receives an additional activation from basic accelerators, e.g. aldehyde-amine and guanidine.

JC EPMix TMTD-80 is used as a primary accelerator in combination with sulfur, as a secondary accelerator in conjunction with thiazoles and as a curing agent without sulfur. Sulfur less cure or low sulfur vulcanization provide heat resistant vulcanizates with good ageing properties.

**Application:** Heat resistant mechanical rubber components, cable coverings and insulations,



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