

Rhenogran® TMTD-80

Predispersed rubber chemicals and additives

Function

Accelerator for the vulcanization of natural and synthetic rubbers, curing agent for the sulfurless resp. low sulfur vulcanization.

Product description

Composition:	80% tetramethylthiuram disulfide 20% elastomer binder with dispersing agents
Appearance:	orange granules
Density, 20 °C:	approx. 1,26 g/cm ³
Physiological properties:	see safety data sheet

Use

Mode of action: Rhenogran TMTD 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. Rhenogran TMTD receives an additional activation from basic accelerators, e.g. aldehyde-amine and guanidine.

Rhenogran TMTD 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. Sulfurless cure or low sulfur vulcanization provide heat resistant vulcanizates with good ageing properties.

Processing: The thermoplastic, fully compatible elastomer binder, combined with its special dispersing agents, allows quick absorption and excellent dispersion in the rubber. In this way, optimal activity of the effective substance is assured.

Dosage:

Primary:
0.1-1 phr TMTD + 3-1 phr sulfur

Secondary (in mechanical rubber articles):
2.75-1.75 phr 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

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

Packaging

25 kg carton box with PE bag inside on 1000 kg skid

Storage stability

In original closed containers under cool and dry conditions 730 days from date of production

Handling

For additional handling information on Rhenogran TMTD-80 please consult current safety data sheet.

® = registered trade mark

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