

Rhenogran® TMTD-70

Predispersed rubber chemicals and additives

Function

Accelerator for the vulcanisation of natural and synthetic rubbers.
Curing agent for the sulfurless or low-sulfur vulcanisation.

Product description

Composition:	70 % tetramethylthiuram disulfide, 30 % elastomer binder with dispersing agents
Appearance:	orange granules (possible variations in color intensity are due to raw material)
Density, 20 °C:	approx. 1,22 g/cm ³
Physiological properties:	see safety data sheet

Use

Mode of action: Rhenogran TMTD-70 causes very rapid but scorch-safe vulcanization of natural and synthetic rubbers. In combination with mercapto or sulfenamide accelerators 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-70 receives an additional activation from basic accelerators, e.g. aldehyde-amine and guanidine.

Rhenogran TMTD-70 is used as a primary accelerator in combination with sulfur, as a secondary accelerator in conjunction with thiazoles, sulfenamides, carbamates and as a curing agent and sulfur donor without free sulfur. Sulfurless cure or low-sulfur vulcanization is providing heat resistant vulcanizates with good ageing properties.

Processing: The thermoplastic, fully compatible elastomer binder which is combined with 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 accelerator:
0.5-1 phr TMTD + 1-3 phr sulfur

Secondary (in mechanical rubber articles):
0.05-0.5 phr TMTD + 1-1.5 phr thiazoles or sulfenamides and 1-3 phr sulfur

Without free sulfur (for heat resistant compounds):
2-4 phr TMTD + 0.5 phr mercaptobenzothiazole

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

Packaging

25 kg paper bags on 500 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-70 please consult material safety data sheet.

Our technical advice - whether verbal, in writing or by way of trials - is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended processes and uses. The application, use and processing of the products are beyond our control and, therefore, entirely your own responsibility. Should, in spite of this, liability be established for any damage, it will be limited to the value of the goods delivered by us and used by you. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery.



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