

Rhenogran® MPTD-70

Predispersed rubber chemicals and additives

Function

Ultra accelerator and sulfur donor for the vulcanization of natural and synthetic rubbers.

Product description

Composition:	70% N,N'-dimethyl-N,N'-diphenyl thiuramdisulphide, 30% elastomer binder and dispersing agents
Appearance:	beige granules
Density, 20 °C:	approx. 1.2 g/cm ³
Physiological properties:	see safety data sheet

Use

Mode of action:	Rhenogran MPTD-70 causes very rapid and scorch-safe vulcanization of natural and synthetic rubbers. In conventional systems, the scorch rate and total curing rate increase in the order MPTD, TMTM, TMTD. If mercapto or sulfenamide accelerators are added, the vulcanization undergoes retardation. In such cases they have little effect on the degree of crosslinking; they mainly reduce the scorch and increase the total curing time. Rhenogran MPTD-70 receives additional activation from basic accelerators, e.g. aldehyde-amine and guanidine. Rhenogran MPTD-70 is used as a primary accelerator in combination with sulfur, as secondary accelerator in conjunction with thiazoles and as curing agent if no sulfur is added. Sulfurless cure or low-sulfur vulcanization provide heat resistant vulcanizates with good aging 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: 0.1-1 phr + 3-1 sulfur Secondary (in mechanical rubber articles): 0.1-0.25 phr + 1-1.5 phr dibenzothiazyl disulfide and 2.75-1.75 phr sulfur Without free sulfur (for heat resistant mixes): 2.5-4 phr + 0.5 phr mercaptobenzothiazole
Application:	Heat resistant technical articles, cable coverings and insulations

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 MPTD-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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