

Rhenogran® TMTM-80

Predispersed rubber chemicals and additives

Function

Accelerator for the vulcanization of natural and synthetic rubbers. Curing agent for low-sulfur vulcanization

Product description

Composition:	80 % tetramethylthiuram monosulfide (TMTM), 20 % elastomer binder and dispersing agents
Appearance:	yellow granules
Density, 20 °C:	approx. 1.24 g/cm ³
Physiological properties:	see safety data sheet

Use

Mode of action:	Rhenogran TMTM-80 causes very rapid and scorch-safe vulcanization of natural and synthetic rubbers. Rhenogran TMTM-80 receives additional activation from basic accelerators, e.g. aldehyde amine and guanidine. Combinations, e.g. with sulfenamide and mercapto accelerators in which Rhenogran TMTM-80 is used as secondary accelerator are of great technical importance. Low-sulfur vulcanization provides vulcanizates with good aging resistance.
Processing:	The thermoplastic, fully compatible elastomer binder, which is combined with special dispersing agents, allows quick absorption and excellent dispersion into the rubber. In this way, optimal activity of the effective substance is assured.
Dosage:	<p>In NR: primary: 0.15-0.3 phr TMTM + 2-3 sulfur secondary: 0.1-2.5 phr TMTM + 2.5 phr sulfur and 1 phr mercapto accelerator</p> <p>In SBR: primary: 0.25-1.5 phr TMTM + 2-3.5 phr sulfur secondary: 0.1-0.75 phr TMTM + 2-3.5 phr sulfur and 2 phr mercapto accelerator</p> <p>In IIR: primary: 1-2 phr TMTM + 1-2 phr sulfur</p> <p>In NBR: 0.1-3 phr TMTM + 0.5-2 phr sulfur and 1-2 phr mercapto accelerator</p> <p>In CR: 0.5-1 phr TMTM + 0.5-1 phr sulfur and 1-3 phr guanidine accelerator</p>

Application: Carcasses, treads, cable insulations, light-colored and white vulcanizates,
transparent articles, ebonite

Packaging

25 kg paper bags on 1000 kg skids.

Storage stability

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

Handling

For additional handling information on Rhenogran TMTM-80 please consult current 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.



LANXESS Deutschland GmbH
Business Unit Rhein Chemie
Kennedyplatz 1
D-50569 Cologne, Germany
<http://rch.lanxess.com>