

Rhenocure® TP/S

Specialty and standard chemicals

Function

Non-staining special accelerator for the rapid vulcanization of compounds based on EPDM and other diene rubbers.

Product description

Composition:	67 % zinc dialkyl dithiophosphate bound to 33 % silica
Appearance:	white, crumbling, free-flowing powder
Density, 20 °C :	approx. 1.3 g/cm ³
Sulfur content:	ca. 14.5 %
Odor:	faint
Discoloration of vulcanizates:	none
Physiological properties:	see safety data sheet

Use

Mode of action: Rhenocure TP/S is a specialty accelerator for EPDM compounds which, apart from sulfur and zinc oxide, contain accelerators of the thiazole and thiuram class. Rhenocure TP/S causes a high degree of crosslinking. Vulcanizates accelerated by Rhenocure TP/S generally do not show any signs of blooming. The free-flowing form of Rhenocure TP/S provides easy dosing and quick dispersion in the mix.

EPDM compounds containing Rhenocure TP/S are easy to process and show particularly good flow properties, even in intricate molds. In the efficient vulcanization of NR and other rubbers, such as IR, SBR, NBR, and IIR, vulcanizates manufactured with Rhenocure TP/S provide an outstanding heat aging resistance.

Dosage: Usually 2-4 phr, if necessary in combination with 0.5-1.5 phr MBT and 0.5 phr TMTD. In compounds filled with high amounts of fillers (carbon black, mineral fillers, or processing oils) the optimal dosage of Rhenocure TP/S may be as high as 5 phr.

in EPDM
Sulfur 1.0-2.5 phr
MBT 0.5-1.5 phr
TMTD 0.2-0.8 phr
Rhenocure TP/S 1.5-2.5 phr

in NR
Sulfur 0.2-0.5 phr
MBTS 0.5-0.75 phr
TMTM 0.2-0.5 phr
Rhenocure TP/S 1.5-2.5 phr

Applications: Molded and extruded technical articles, e.g. profiles, hoses, foils, coatings

Packaging

25 kg carton box with PE bag inside on 600 kg skid or 25 kg paper bags 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 Rhenocure TP/S 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.



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