

Rhenocure® ZP

Specialty and standard chemicals

Function

Ultra-accelerator for the vulcanization of natural and synthetic rubber

Product description

Composition:	Zinc-N-pentamethylene dithiocarbamate (Z5MC)
Appearance:	white to yellowish powder
Density, 20 °C:	approx. 1.6 g/cm ³
Melting point:	> 220 °C
Physiological properties:	see Material Safety Data Sheet

Use

Mode of action:	Rhenocure ZP is a very fast accelerator for NR and synthetic rubbers, e.g. for SBR, NBR and EPDM. Combination with thiuram and thiazole accelerators may result in reduced cure rates and improved processing safety. In the case of solid rubber compounds the scorch times increase in the following order: ZDBC, ZDEC, ZEPC, ZDMC, Rhenocure ZP. In latex compounds Rhenocure ZP gives the shortest scorch time. Rhenocure ZP is activated by basic accelerators. Rhenocure ZP is also used in small amounts for secondary acceleration and activation of compounds which are cured with thiazole or thiuram accelerators. Vulcanizates produced with Rhenocure ZP have very good tensile and resilience to aging, they should contain antioxidants. This is particularly important in NR and IR compounds.
Processing:	The dispersion of Rhenocure ZP in rubber presents no difficulty. Provided that no sulfur is present, the chemicals do not decompose, even at fairly high processing temperatures. Rhenocure ZP does not sensitize latex mixes. When Rhenocure ZP is used as the only accelerator in NR compounds, the curing temperature should not exceed 135 °C.
Dosage:	in NR: 0.3-1.0 phr; as secondary accelerator 0.05-0.3 phr in SBR and NBR: 0.5-1.2 phr; as secondary accelerator 0.05-0.3 phr in latex: 0.6-1.3 phr
Application:	Technical rubber goods, footwear, cables, surgical and hygienic articles, goods which come into contact with foodstuffs, pharmaceuticals or cosmetics, fabric proofing, dipped goods, self-curing mixes and solutions, latex goods

Packaging

12.5 kg paper bag 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 Rhenocure ZP 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>