

Rhenogran® Hexa-80

Predispersed rubber chemicals and additives

Function

Accelerator for the vulcanisation of natural and synthetic rubbers, also formaldehyde donor for steel cord adhesion

Product description

Composition:	80 % hexamethylene tetramine, 20 % elastomer binder and dispersing agents
Appearance:	beige granules
Density, 20 °C:	approx. 1.25 g/cm ³
Physiological properties	see safety data sheet

Use

Mode of action:	Rhenogran Hexa-80 is a slightly basic accelerator for slow vulcanisation. It causes the cure to start almost as soon as it has been added. The rate of cure is fairly slow. Rhenogran Hexa-80 provides a high degree of crosslinking. Mixes containing Rhenogran Hexa-80 receive activation and secondary acceleration from mercapto, sulfenamide, thiuram, and dithiocarbamate accelerators. In combination with resorcinol, Rhenogran Hexa-80 is especially used as a formaldehyde donor for the rubber-to-metal bonding (steel cord). Rubber-to-metal bonding is favorably influenced by the excellent dispersion of the Rhenogran granules. The additional use of an antioxidant is recommended to improve the resistance to aging of vulcanizates, which have been accelerated by Rhenogran Hexa-80. Blooming does usually not occur.
Processing:	The thermoplastic, fully compatible elastomer binder which is combined with special dispersing agents allows quick absorption and excellent dispersion in the rubber compound. In this way, optimal activity of the effective substance is ensured.
Dosage:	As formaldehyde donor: approx. 1.3-1.6 phr with 2.5-3.2 phr Rhenogran Resorcinol-80. As an accelerator: primary (for thick-walled articles): 0.6-0.8 phr with 3-4 phr sulfur secondary: 0.1-0.35 phr with 0.25-1.0 phr mercapto or thiuram accelerator and 2.0-3.5 phr sulfur
Application:	Formaldehyde donor for resorcinol-based adhesive compounds (e.g. carcasses of steel-cord tires), slow-curing mixes, thick-walled articles, roller coverings, light-colored and transparent vulcanizates.

Packaging

25 kg paper bag 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 Rhenogran Hexa-80 please consult current safety data sheet.

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