

Rhenogran® ZAT-70

Predispersed rubber chemicals and additives

Function

Special accelerator for the vulcanization of EPDM and other diene rubbers

Product description

Composition:	70 % zinc amine dithiophosphate 30 % elastomer binder and dispersing agent
Appearance:	grey to yellowish grey granules (color variations due to raw materials)
Density, 20 °C	approx. 1.19 g/cm ³
Pellet size	Diameter: 6-8 mm Length: 6 mm +/- 4 mm
Physiological properties:	see safety data sheet

Use

Mode of action: In combination with sulfur and secondary accelerators of the thiazole and thiuram class, Rhenogran ZAT-70 provides a rapid vulcanization of EPDM. The vulcanizates with Rhenogran ZAT-70 show good moduli, favorable compression set values and a high degree of crosslinking. Rhenogran ZAT-70 forms no carcinogenic nitrosamines. Rhenogran ZAT-70 is also suitable for the efficient vulcanization of NR, SBR, IR, NBR, and IIR. In general, blooming or discolorization do not occur. Outstanding resistance of vulcanizates to hot air.

Rhenogran ZAT-70 provides higher curing rates than Rhenogran TP-50.

Processing: The thermoplastic, fully compatible elastomer binder allows quick absorption and excellent dispersion in the rubber. In this way, optimal activity of the effective substance is assured.

Due to the coarse-grain raw material it is recommended to adjust mixing temperature and time accordingly (recommendation: > 100°C). If a lower mixing temperature is required we recommend the use of Rhenogran ZADT-50.

Dosage: Sulfur content of Rhenogran ZDT-70: approx. 13.5 %
The usual dosage of Rhenogran ZAT-70 is 2-3 phr. For high curing rates without blooming the following curing systems are recommended (in phr):

in EPDM:

Rhenogran S-80	1.0-3.0
Rhenogran MBT-80	0.8-2.0
Rhenogran ZBEC-70	1.0-2.0
Rhenogran ZAT-70	1.5-3.0
Rhenogran CLD-80	0.6-1.5

in NR, SBR and NBR:

Rhenogran S-80	0.2-0.6
Rhenogran MBT-80	0.6-1.2
Rhenogran TMTD-80	0.4-1.0
Rhenogran ZAT-70	2.0-3.5
Rhenogran CLD-80	0.5-1.0

Application: Molded and extruded articles, e.g. hoses, fenders, foils, etc.

Packaging

20 kg carton with PE bag inside on 800 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 ZAT-70 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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