

Rhenogran[®] ZBEC-70

Predispersed rubber chemicals and additives

Function	Ultra accelerator for the vulcanization of natural and synthetic rubbers	
Product description	Composition:	70% Zinc-dibenzyl- dithiocarbamate (techn.) 30% elastomer binder and dispersing agents
	Appearance:	white-grey granules
	Density, 20 °C:	approx. 1,22 g/cm ³
	Typical Datas of ZBEC	
	Active content:	>= 97 %
	Melting point:	min. 180 °C
	Physiological properties:	see safety data sheet

Use

Mode of action: Rhenogran ZBEC-70 is a fast-acting thiocarbamate accelerator which has not been found to produce any harmful N-nitrosamines. Rhenogran ZBEC-70 can be used as a primary or secondary accelerator both in natural and synthetic rubbers, e.g. EPDM, IR, SBR, NBR, IIR. Compared with conventional dithiocarbamate accelerators, Rhenogran ZBEC-70 has a high level of processing safety. Basic accelerators or Rhenogran[®] Geniplex[®]-80 have an activating effect on Rhenogran ZBEC-70. In compounds containing thiazole or sulphenamide accelerators, Rhenogran ZBEC-70 has an activating effect. Providing equimolar quantities are used, vulcanizates containing Rhenogran ZBEC-70 demonstrate similar moduli to other dithiocarbamates, which is why antioxidants should be used. Ageing characteristics can be improved considerably by combining Rhenogran ZBEC-70 with Rhenogran[®] Geniplex[®]-80.

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

Dosage: In our experience, the following proportions have proven successful:

in EPDM:

Rhenogran ZBEC-70:	0.8-2.5 phr
Rhenogran S-80:	1.0-2.0 phr
Rhenogran MBT (MBTS)-80:	1.0-2.0 phr
Rhenogran CBS-80:	0.5-1.5 phr

in NR, SBR, NBR:

Rhenogran ZBEC-70:	0.8-2.0 phr
Rhenogran S-80:	1.0-2.0 phr
Rhenogran MBT (MBTS)-80:	0.5-3.0 phr

Application: Suitable for technical rubber articles based on NR, EPDM, IR, SBR, NBR or IIR. Particularly suitable for leight or brightly coloured rubber articles.

Packing 25 kg paper bags

Storage stability In original closed containers under cool and dry conditions max. 2 years.

Handling Consult material safety data sheet (MSDS) for additional handling information on Rhenogran ZBEC-70.

Rhenogran® = registered trademark of Rhein Chemie Rheinau GmbH
Geniplex® = registered trademark of Schering Ind. Products Ltd.

Version: 2/18. Jan 2005

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, enti- rely 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.

Rhein Chemie Rheinau GmbH
Duesseldorfer Strasse 23-27
D-68219 Mannheim
Tel.: +49-621-8907-0
Fax: +49-621-8907-675
E-Mail: info@rheinchemie.com
www.rheinchemie.com

