

Rhenogran® ZBOP-50

Predispersed rubber chemicals and additives

Function

Non-staining specialty accelerator for rapid vulcanization of EPDM and other diene rubbers not containing any secondary amines which can form N-nitrosamines

Product description

Composition:	50 % zinc dialkyldithiophosphate 50 % polymer binder and dispersing agents
Appearance:	beige granules
Density, 20 °C	approx. 1.17 g/cm ³
Physiological properties:	see safety data sheet

Use

Mode of action:	<p>Rhenogran ZBOP-50 is used as a secondary accelerator together with sulfenamide, thiazole, thiuram, carbamate, and guanidine in the sulfur vulcanization of EPDM, synthetic diene rubbers and natural rubber. During vulcanization it does not form any secondary amines which can be converted to carcinogenic N-nitrosamines. Rhenogran ZBOP-50 is highly soluble and disperses very well in all conventional types of rubber, especially EPDM. With its excellent non-blooming and non-staining characteristics as well as rapid vulcanization Rhenogran ZBOP-50 is particularly suitable for colored, transparent or translucent compounds. Owing to very good processing safety, the green compounds have a good shelf life.</p> <p>In efficient vulcanization of NR and other rubbers such as IR, SBR, NBR, and IIR Rhenogran ZBOP-50 provides excellent reversion, a high degree of cross-linking and vulcanizates with good heat aging resistance.</p>
Processing:	<p>The thermoplastic nature of the elastomer binder which is compatible with all standard types of rubber and the high solubility of ZBOP ensure rapid absorption and excellent dispersion in the mix.</p>

Dosage: Sulfur content of Rhenogran ZBOP-50: approx. 9.0 %

As secondary accelerator: 1-4 phr + 0.5-2 phr of a primary accelerator. If the compounds are highly filled (carbon black, mineral fillers, plasticizer oils), the optimum amount may be higher.

Recommended for NR in phr (nitrosamine-free):

Rhenogran S-80	0.3-2.0 phr
Rhenogran MBTS-80	0.5-2.0 phr
Rhenogran ZBOP-50	1.0-4.0 phr

Recommended for EPDM in phr (nitrosamine-free):

Rhenogran S-80	1.2-2.5 phr
Rhenogran MBTS-80	1.0-2.5 phr
Rhenogran ZBOP-50	2.0-4.0 phr

Application: Rhenogran ZBOP-50 is used in injection-molded and extruded technical articles of all types including profiles, hoses, sheeting and tank linings

Packaging

20 kg paper bags 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 Rhenogran ZBOP-50 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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