

Rhenogran® MMBI-70

Predispersed rubber chemicals and additives

Function

Non-staining antioxidant for vulcanizates based on natural and synthetic rubbers. Synergistic effects in combination with other antioxidants.

Product description

Composition:	70 % methyl-2-mercaptobenzimidazole 30 % elastomer binder and dispersing agents
Appearance:	beige granules (variations of color intensity due to raw materials)
Density, 20°C:	approx. 1.16 g/cm ³
Physiological properties:	see valid material safety data sheet

Use

Mode of action: Rhenogran MMBI-70 is mainly used as a synergistic co-agent for other antioxidants. The combination of Rhenogran MMBI-70 with other antioxidants is always more effective as the individual components. Rhenogran MMBI-70 is a moderately powerful, usually non-staining antioxidant. It is particularly suitable for formulations including ultra accelerators, as well as for heat-resistant mixes without sulfur but with Rhenogran TMTD-70.

Compounds with a higher content of TMTD but without sulfur will be activated by Rhenogran MMBI-70. Rhenogran MMBI-70 acts as a retarder on CBS, MBT, and on thiuram and dithiocarbamate accelerators, hence increasing processing safety and storage stability of the compounds. Rhenogran MMBI-70 slightly reduces the modulus of natural and synthetic rubber articles. It does not bloom when the recommended dosages are used.

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 active substance is assured.

Dosage:

Primary antioxidant:
0.1-2 phr + 1-3 phr sulfur

Secondary antioxidant:
0.05-0.25 phr + 1-2 phr sulfur

Without free sulfur:
2.5-4 phr

Application: Suitable for all kinds of transparent, white and colored rubber articles, fabric proofings, etc.

Packaging

25 kg paper bags 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 MMBI-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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