

Product description

Composition	75% Zinc methyl-mercapto-benzimidazole 25% EPDM/EVA binder and dispersing agents		
Appearance	beige granules		
Density, 20 °C	Approx. ~ 1.18 g / cm ³ (20°C)		
Physiological properties : See safety data sheet (MSDS)			
Raw material characteristics of ZMMBI:			
Melting point	≥ 270 °C	Heat loss	≤ 0.50%
Zn content	18-20%	Sieve residue 150µm	≤0.10 %

Use Characteristics Konson® ZMMBI-75 affords good protection against oxidation and the harmful consequences of overcure to vulcanizates produced with ultra-accelerators, such as dithiocarbamates and thiurams. It gives somewhat less protection to vulcanizates produced with other accelerators. To vulcanizates produced without sulphur but with a fairly large amount of thiuram it gives very good resistance to steam and, when used together with TMQ to hot air also. The efficacy of combinations of Konson® ZMMBI-75 with other anti-oxidants is greater than the added effects of the ingredients when they are used separately. The effects of the combinations are therefore synergistic. Combinations with Konson® IPPD, or Konson® 6PPD also give the vulcanizates outstanding protection from rubber poisons. The protective effects of Rhenogran ZMMBI-75 are very similar to those of the chemically related products

Konson®MMBI-75, Konson®MMBI-80, and Konson® ZMBI.

Dosage

calculated on 100 phr rubber usual amount: 1 - 3 phr
for transparent goods: 0.6 - 0.8 phr
for heat resistant thiuram vulcanizates: 3 - 6 phr
for protection of vulcanizates from rubber poisons
non-staining: 0.8 - 2 phr combination of ZMMBI-75 and 445 (1:1)
staining: 0.8 - 2 phr combination of ZMMBI-75 and IPPD (1:1) or 0.8 - 2 phr combination of ZMMBI-75 and 6PPD (1:1)

Applications

Suitable for compounds based on natural rubber or synthetic rubber of the types SBR, polyisoprene, polybutadiene and NBR. Suitable for transparent, white and coloured rubber goods, e.g. bathing goods, fabric proofings, toys. Used with thiuram, but little or no sulphur, for goods which must withstand heat.

Packing

Net 25 kg cartons with plastic inner.

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.