

Rhenofit® BDMA/S

Specialty and standard chemicals

Function

Activator for peroxide vulcanization

Product description

Composition:	70 % 1,4-butandiol dimethacrylate (BDMA) 30 % silica
Appearance:	white, non-dusting powder
Density, 20 °C:	approx. 1.2 g/cm ³
Discoloration of vulcanizates:	none
Physiological properties:	see safety data sheet

Use

Mode of action:	Polymer radicals, formed during peroxide vulcanization, react with the methacrylate groups of the coagent Rhenofit BDMA/S, thus providing additional reactive sites for crosslinking. Therefore, the degree of polymer crosslinking may be considerably increased from what is normally obtained by higher dosages of peroxide. In general, coagents increase the rate of crosslinking. The vulcanizates show partly increased hardness, higher moduli, outstanding resilience and good abrasion resistance. Storage stability and processing safety of compounds will be to some degree limited by the presence of Rhenofit BDMA/S. Rhenofit BDMA/S is particularly suitable for medium loaded black NBR and EPDM compounds.
Processing:	Rhenofit BDMA/S should be added at the end of the first mixing stage, in compounds tending to scorch in the second mixing stage together with other additives.
Dosage:	1-3 phr, depending on the kind of peroxide and its dosage
Application:	Molded and extruded technical articles based on EPDM, EPM, NBR, CM, etc., e.g. seals, bushings, cables, profiles

Packaging

25 kg carton with PE bag inside on 600 kg skid

Storage stability

In closed original containers under cool and dry conditions 730 days from date of production (storage temperature should be kept below 25 °C)

Handling

For additional handling information on Rhenofit BDMA/S please consult current safety data sheet.

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