

Rhenocure® DOTG/C

Specialty and standard chemicals

Function

Primary or secondary accelerator for the vulcanization of natural and synthetic rubber; sensitizer for latices

Product description

Composition:	Di-ortho-tolylguanidine
Appearance:	white to very light grey, low-dusting powder, oil coated
Density, 20 °C:	approx. 1.18 g/cm ³
Ash content:	max. 0.3 %
Solubility:	slightly soluble in toluene and acetone, insoluble in water and benzene
Physiological properties:	see safety data sheet

Use

Mode of action: Rhenocure DOTG/C is an accelerator for all rubbers with very slow scorch and relatively long cure times. If Rhenocure DOTG/C is the only accelerator used, an effective antioxidant should be added. Rhenocure DOTG/C has a synergistic effect when used as a secondary accelerator in combination with mercapto, thiuram and dithiocarbamate accelerators, increasing the degree of crosslinking and cure times. Vulcanizates with excellent mechanical values and good aging and reversion resistance are obtained. Rhenocure DOTG/C is only slightly effective in IIR and EPDM.

Processing: Rhenocure DOTG/C is very easy to incorporate and disperses perfectly, although the product has a high melting point. Zinc oxide should be added to compounds containing Rhenocure DOTG/C. Stearic acid acts as a retarder in compounds containing guanidine accelerators. Proportions higher than 1.0 wt. % also have an adverse effect on mechanical properties.

Dosage: Dosage recommendations (in phr)

NR:
2.2-4.0 Sulfur
+ 0.5-2.0 MBTS
+ 0.2-2.0 Rhenocure DOTG/C

SBR:
2.0-3.0 Sulfur
+ 1.0-2.0 MBTS
+ 0.0-2.0 CBS
+ 0.5-1.5 Rhenocure DOTG/C

Application: All kinds of technical rubber articles, thick-section rubber articles such as roller coverings

Packaging

20 kg carton with PE bag inside on 480 skid

Storage stability

In original sealed containers under cool and dry conditions 730 days from date of production

Handling

For additional handling information on Rhenocure DOTG/C please consult current safety data sheet.

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