

## Rhenosin® RB

Resins

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### Function

Reinforcing resin for solid rubbers

### Product description

Composition:	Phenol formaldehyde resin (Novolak) without hardening agent
Appearance:	yellowish to brownish flakes
Melting range (DIN 53181, ISO 3146):	90 ± 10 °C
OH number (DIN 53240):	500 ± 20 mg KOH/g
Density:	1.26 g/cm <sup>3</sup>
Free phenol (DIN 16916-02-L2)	max. 0.6 %

### Use

Mode of action:	To be fully effective, approx. 10 % hardener (Rhenogran Hexa 80) should be added to Rhenosin RB. As a hardener Rhenosin RB is most effective in NR, SBR, BR, NBR, and EPDM. Mix viscosity increases in NR, SBR, BR and EPDM but decreases in NBR by the addition of Rhenosin RB. Scorch and vulcanization characteristics are not affected by the phenol resin itself. The addition of hardeners reduces the scorch time and changes the vulcanization pattern. Since the hardener acts as a powerful accelerator, Rhenosin RB is not suitable for use in CR. When used as outlined above, Rhenosin RB significantly increases the hardness of vulcanizates. Tensile strength is slightly reduced and elongation at break increased by the hardener system. Modulus is also increased, except in SBR.
Processing:	Rhenosin RB should be added in the internal mixer. The temperature inside the mixer should be above the melting range for Rhenosin RB. The hardener should be incorporated in the last mixing stage on the open mill.
Dosage:	5-25 phr
Application:	For hard and very hard vulcanizates such as apex compounds in radial tires, floor coverings, paper rollers, heels, soling sheets, oil-resistant seals, brake linings, solid hose material.

## **Packing**

20 kg paper bags on 1000 kg skid

## **Storage stability**

If sealed in original containers and kept in a dry place 730 days from date of production

## **Handling**

For additional handling information on Rhenosin RB please consult current safety data sheet.

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