

## Vulkanol® P

## Processing Promoters

### Function

Vulkanol® P is a dry liquid formulation of triacetine (50 %) on silica (50 %) and used in rubber applications as polar synthetic plasticizer to improve processing and dispersion of fillers. Vulkanol® P is mainly used in polar polymers as also in compounds with polar fillers like silica. In silica filled tread compounds for passenger car tires the wet traction can be improved.

### Product description

Composition: preparation of additive on silica

Appearance: white powder

<u>Property</u>	<u>Nominal value</u>	<u>Unit</u>	<u>Test method</u>
Content of carbon	25 ± 2	%	Elementary analysis
Ash content	46 ± 3	%	ASTM D 4574

### Use

Mode of action: As polar substance Vulkanol® P has a strong tendency to polar fillers or polymers. In compounds with polar fillers like silica the processing is therefore improved. Increasing the hardness of the silica filled vulcanizate Vulkanol® P has no influence on the Payne Effect.

Processing: Vulkanol® P is readily mixed into the rubber compounds. In silica tread compounds the compound viscosity is significantly reduced, the Scorch safety is prolonged in combination with shorter vulcanization time using Vulkanol® P as replacement for mineral oils.

Vulcanizate Properties: By replacing mineral oils in silica tread formulations Vulkanol® P increased the hardness of the vulcanizate, other mechanical or dynamic properties like modulus, tensile strength, elongation at break or loss factor are not influenced.

Dosage: Typical levels of Vulkanol® P addition based on 100 parts by weight of elastomer are:

NBR (e.g. Perbunan®, Krynac®)	30 phr
CR (e.g. Baypren®)	30 phr
NR	20 phr
SBR (e.g. Buna® SE, Buna® VSL)	20 phr
IIR	20 phr

## Packaging

20 kg package on skid.

## Storage stability

In original closed containers under cool (approximately 25 °C) and dry conditions 365 days from date of production.

## Handling

For additional handling information on Vulkanol® P please consult current safety data sheet.

These raw material properties are typical and, unless specifically indicated otherwise, are not to be considered as delivery specification.

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**LANXESS Deutschland GmbH**  
**BU Rhein Chemie**  
Kennedyplatz 1  
50569 Cologne, Germany  
Phone: +49 (0)221 8885-0  
E-Mail: [rubber.additives@lanxess.com](mailto:rubber.additives@lanxess.com)  
<http://rch.lanxess.com>