

Rhenocure® ZEPC

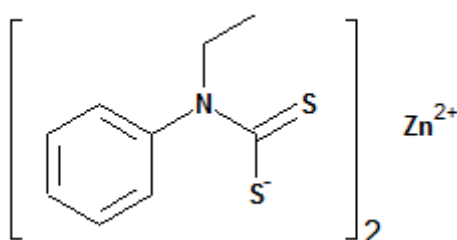
Specialty and Standard Chemicals

Function

Rhenocure® ZEPC is an ultra accelerator suitable for use in all curing processes.

Product description

Composition: zinc ethylphenyl dithiocarbamate (ZEPC)



Appearance: white to yellowish powder
Density: approximately 1.5 g/cm³

Property	Nominal value	Unit	Test method
Initial melting point	≥ 205.0	°C	RUC 511
Zinc content	15.5 ± 2.5	%	RUC 514
Volatile matter	≤ 0.30	%	RUC 512
Sieve residue (0.063 mm)	≤ 0.50	%	RUC 513
Sieve residue (0.150 mm)	≤ 0.10	%	RUC 513

Use

Application: Rhenocure® ZEPC is an ultra accelerator suitable for use in all curing processes such as hot air and steam including continuous and batch processes. Rhenocure® ZEPC is commonly employed as a booster to thiuram and sulfenamide cure systems. It is frequently employed in this role in extruded EPDM profiles. As an ultra accelerator it is used in latex dipped goods and solution dipped goods. It forms one component of vulcanization systems active at low temperatures (e.g. 80 °C). It is employed in repair compounds.

Processing: Rhenocure® ZEPC is easy to incorporate and disperse. It does give short scorch times and a narrow vulcanization plateau. It does not decompose even at high temperatures unless sulfur is present.

Dosage: Typical levels of addition based on 100 parts by weight of elastomer are:
press and hot air cures

NR	1.8 - 2.4	sulfur
	0.6 - 0.7	Rhenocure® ZEPC
	0.4	Vulkacit® Mercapto
SBR	1.5 - 2.0	sulfur
	0.8 - 0.9	Rhenocure® ZEPC
	0.4	Vulkacit® Merkapto

self vulcanizing compounds and solutions

NR	2.5 - 3.5	sulfur
	3.0	Rhenocure® ZEPC
	0.5	Vulkacit® Merkapto
	1.0 - 2.0	Rhenocure® HX
SBR	2.5 - 3.5	sulfur
	3.0	Rhenocure® ZEPC
	1.0 - 2.0	Rhenocure® HX
	0.5	Vulkacit® Merkapto

Vulcanizate Properties: Rhenocure® ZEPC gives products with high tensile strength and resilience when properly cured. Rhenocure® ZEPC can cause a surface bloom on vulcanizates when dosed above its solubility limit in the rubber. The solubility limits of different dithiocarbamates are additive. Hence a useful way of avoiding bloom, particularly in EPDM is to combine small additions of Rhenocure® ZEPC and Rhenocure® ZDEC to achieve the desired vulcanization speed.

Packaging

25 kg paper bag on 500 kg skid.

Storage stability

In original closed containers under cool (approximately 25 °C) and dry conditions 730 days from date of production.

Handling

For additional handling information on Rhenocure® ZEPC 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
<http://rch.lanxess.com>