Deoflow F

Zinc free Processing Additives

Product information

Description
Deoflow F is a processing agent for use in natural and synthetic rubber

Composition
Mixture of soaps and fatty acid esters

Application
For rubber compounds where reduced zinc and water content is required or desired. Deoflow F is particularly effective in synthetic rubber and reduces the viscosity of the mixture. Deoflow F ensures improved release behavior. Deoflow F improves the dispersion of fillers and thus contributes to optimized mixing homogeneity

Dosage
2 – 5 phr

Typical physical properties

		Unit
Colour	beige pellets or flakes	/
Ash, 2h at 950°C	6,4 ± 1,0	%
Dropping point, Mettler device	81,0 ± 5,0	°C

Benefits
Zinc free
Excellent lubricating and dispersion agent
Improves demoulding and release behavior
Versatile areas of application
Water free
Free of classification and labeling

Associated products
Deoflow A
Deoflow AM
Deoflow D
Deolfow S
Deoflow AP
Deoflow Z
Deoflow 821
Deosol HN

Storage
In originally sealed package in cool and dry places
Storage stability: min. 24 months

Supply Form
Pellets – 25 kg in PE-bags

German Food Legislation (BfR recommendation XXI)
Approved

US Code of Federal Regulations, FDA – CFR Title 21, 177.2600
Listed

Version: 01/2023

COMPETENCE IN ADDITIVES

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Comparison of the rheological properties in EPDM batch*

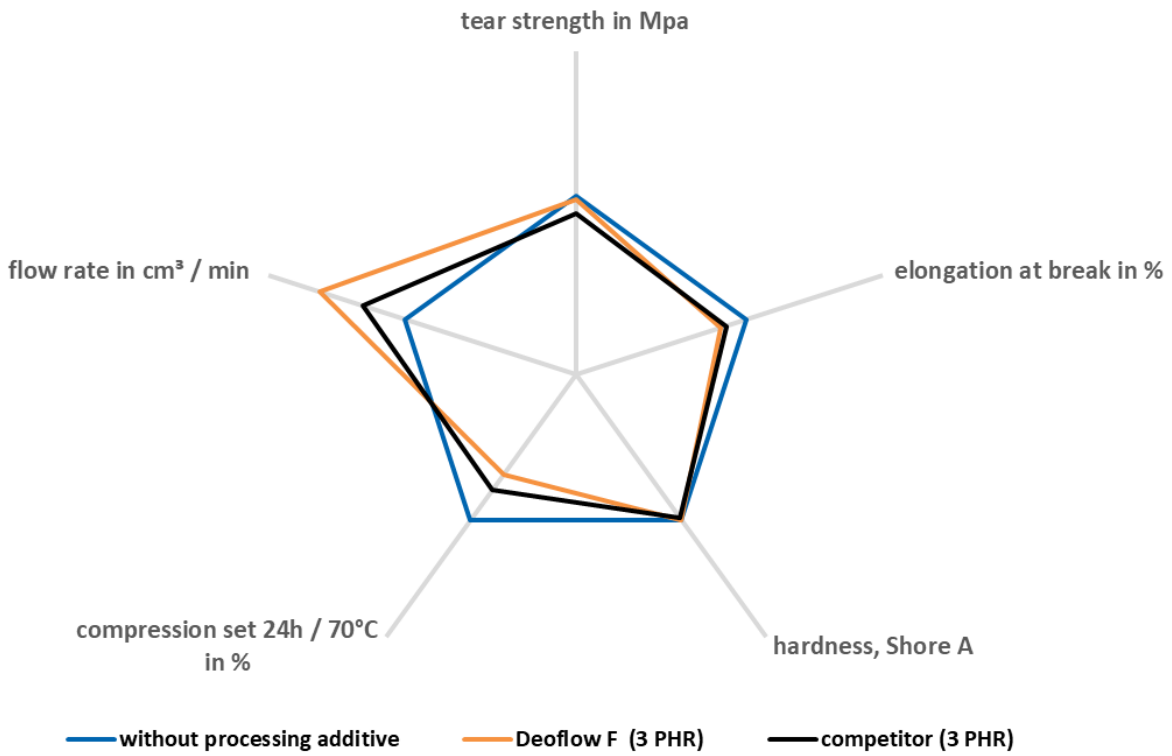

Diagram 1: Comparison of some mechanical properties of Deoflow F and a competing additive relative to a control (equals 100%) without a processing additive. *Batch D – 416: 100 phr EPDM, 130 phr carbon black, 5 phr ZnO, 1 phr stearic acid. Cure conditions of the S2 and CS Specimen: 170°C / 10 min.

As shown in diagram 1, the use of Deoflow F causes improved rheological properties in rubber relative to competing additives available on the market with a similar composition. At a level of 3 phr Deoflow F induces the strongest relative increase on the flow rate within injection moulding compared to other additives. Under the same conditions the compression set is significantly reduced upon use of Deoflow F in rubber mixtures.

Conclusion:

Deoflow F is increasing the flow rate and reducing the compression set in natural and synthetic rubber.

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