

Technical Data Sheet

STRUKTOL® HT 207

Processing Additive for Rubber Processing

Composition

Mixture of soaps and fatty acid esters

Properties

Appearance		beige to pale yellow pastilles
Density	[kg/m ³]	1060
Bulk density	[kg/m ³]	600
Melting point	[°C]	65
Physiological behaviour		refer to safety data sheet
Storage stability		at least 24 months under normal conditions (store in a dry place)
Packing		20 kg bags

The data given are typical values which are not intended for use in preparing specifications. For test methods refer to the corresponding supplement.



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Recommendations for Application

STRUKTOL HT 207 is a processing additive for applications in natural and synthetic rubber.

As a blend of relatively polar fatty acid derivatives STRUKTOL HT 207 acts in non-polar elastomers predominantly as an external lubricant and release agent, since it has the tendency to accumulate at interfaces, this resulting in reduced friction and tackiness. In practice, this effect shows as improved extrusion rate and reduced mill roll sticking.

Due to its specific composition the product softens readily and can easily be incorporated at temperatures above 65°C.

In polar rubbers such as NBR the internal lubrication is to the fore resulting in a reduction of compound viscosity.

Due to its pronounced surfactant character STRUKTOL HT 207 is strongly adsorbed to fillers thus supporting filler dispersion and breaking up of filler agglomerates. This does not only lead to improved compound homogeneity but also to reduced compound viscosity. The effect is naturally strong with the polar mineral fillers.

Since STRUKTOL HT 207 has a certain alkalinity, it has an activating effect upon the sulphur cure. When too fast scorch is observed in individual cases, addition of a suitable retarder (e.g., N-Cyclohexylthiophthalimide) should be taken into consideration.

STRUKTOL HT 207 has particularly been developed from environmental aspects and contains no heavy metals. In many applications it can replace zinc soaps previously used as processing additives and thus it is an important contribution to the currently demanded reduction of the zinc content of rubber compounds.

STRUKTOL HT 207 is suitable for the application in rubber compounds intended for the manufacture of articles in contact with food according to 21 CFR 177.2600 (FDA).

Dosage

2 - 5 phr

The suggestions for application and usage of our products as well as possible proposed formulations are meant to advise only to the best of our knowledge. This information is without obligation and does not release customers from their own testings to ensure suitability for intended processes and use. Liability is only accepted in case of intention or gross negligence. Liability for any defects caused by minor negligence are not accepted. Each producer is responsible and liable to observe legislation and patent rights of third parties.

This new leaflet replaces all previously printed documentation.

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