



Schill + Seilacher

Technical Data Sheet

STRUKSILON 8015

Silicone Stabiliser for PU-Rigid Foam

Distributed by:

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Application Fields

STRUKSILON 8015 is a specifically designed silicone stabiliser for appliance application and other applications where good flowability is required, like pipe insulation and hot water boiler production.

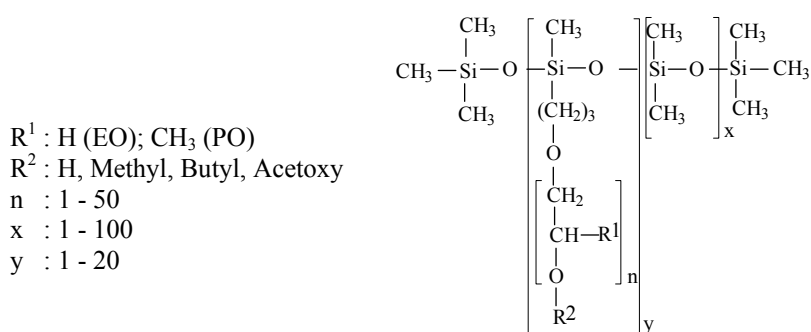
Chemical and Physical Properties

According to its chemical structure STRUKSILON 8015 is a polyether modified polydimethyl siloxane resistant to hydrolysis.

STRUKSILON 8015 is at room temperature a clear, colourless to slightly yellow liquid of middle viscosity. At temperatures below 6°C solidification of STRUKSILON 8015 starts, resulting in turbidity.

This turbidity does not affect the product quality or the activity of the stabiliser. It is fully reversible and is reduced when STUKSILON 8015 is pre-blended in a polyol.

General chemical structure :



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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Typical Properties

Viscosity at 25°C	[mPas]	850
Melting point	[°C]	app. 0
Density at 25°C	[kg/m ³]	app. 1045
Flash point (DIN EN 22719)	[°C]	> 100
Refractive index		1.444

Technical Properties

STRUKSILON 8015 was specifically designed to combine excellent flowability and improved demould properties with very good insulation properties. For this reason it is especially recommended for systems used in appliance application, pipe insulation or other applications where excellent flowability is needed. It is mainly focused on systems where cyclopentane or mixtures of cyclo- and isopentane are used as a blowing agent.

Based on its extraordinary performance, the use of STRUKSILON 8015 can result in improved λ -value, reduced flow factor and reduced post expansion of the foam. It offers good miscibility with most of the common polyol systems.

STRUKSILON 8015 could also be used in pentane blown continuous panel production. However, for this application we recommend our products STRUKTOL VP 8028, VP 8031, VP 8032, STRUKSILON 8007 and STRUKSILON 8026 which show either enhanced emulsification or improved FR properties.

When stored at temperatures below 6°C turbidity may occur as a result of a beginning solidification of the product. This turbidity neither has an influence on the effectiveness of the stabiliser nor are the foam properties effected. The turbidity is fully reversible and will vanish when the product is heated up again. Due to solidification which goes along with an increased viscosity we recommend to meter the product at temperatures above 6°C.

Recommended Dosage

Usually, STRUKSILON 8015 is applied in quantities of 0.5 to 1.5 php (parts on 100 parts polyol). We recommend to adjust the optimum dosage to the corresponding formula. However, a concentration of 3 php should not be exceeded.

Product Safety and Handling

STRUKSILON 8015 is not a hazardous material for the purposes of hazardous materials regulation.

Further information regarding safety, toxicology, special properties of the product, transport and storage is given in the safety data sheet.

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Packaging, Storage and Transport

Storage stability	12 months in closed original containers if transported and stored at temperatures between 1 and 30°C.
Packaging	200 kg drums 1000 kg containers (IBC)

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.
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