Technical Information

TEGOSTAB® B 8871

Description

TEGOSTAB® B 8871 is a non-hydrolysable silicone surfactant for the manufacturing of rigid polyurethane foams. It is especially suitable for continuous PIR panel and one component foam (OCF) applications.

Key performance benefits

Continuous PIR panel:
- Excellent emulsification and nucleation
- Superior thermal insulation

One component foam:
- High volume yield
- Outstanding dimensional stability

Typical properties*

Appearance	Clear liquid
Viscosity at 25 °C	700 mPa·s
Density at 25 °C	1.02 g/cm³
Calculated OH number	100 mg KOH/g

* For actual ranges, please refer to the Certificate of Analysis (CoA) / Sales Specification.

Application

TEGOSTAB® B 8871 is designed to be used as sole surfactant in PIR applications benefiting from its pronounced emulsification and nucleation capabilities.

In case stronger stabilization is required in PIR, TEGOSTAB® B 8871 may be used in conjunction with additional silicone surfactants with more pronounced cell stabilization potency from the TEGOSTAB® range.

TEGOSTAB® B 8871 is suitable to be used as sole surfactant in OCF applications.

In case additional cell opening is needed in OCF, TEGOSTAB® B 8871 may be used in conjunction with a cell opener from the TEGOSTAB® and/or ORETGOL® range.

In case TEGOSTAB® B 8871 is planned to be pre-blended with other chemicals for polyurethane production, compatibility and/or stability tests should be conducted. Separate dosing and/or blending into the polyol is preferred.

Common use levels of TEGOSTAB® B 8871 in OCF applications are in the range of 3.0 % and 5.0 % of the polyol blend.

Common use levels of TEGOSTAB® B 8871 in two component formulations are in the range of 1.0 and 3.0 parts per 100 parts of polyol. The optimal concentration will depend on specifics of the formulation.

Storage recommendations

- Shelf life: minimum 12 months. For exact date of expiration, please consider CoA.
- Storage conditions: dry and cool place in factory-packed containers.
- Optimum storage temperature: 10 to 30 °C.
- Solidification point: about 0 °C.
- Viscosity increase and solidification at low temperatures is reversible and has no negative influence on the performance.

Safety instructions

Please consult the Safety Data Sheet for summary of product hazards, personal protective measures, and emergency release procedures.

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