

Technical Information

TEGO® Antifoam 4–88

TEGO® Antifoam 4–88 is an APEO-free and mineral oil free antifoam emulsion based on organo-modified siloxanes.

Physical properties

Appearance	white emulsion
Active content	40 %
Density (25 °C)	approx. 1.0 g/cm ³
Viscosity, dynamic (25 °C) DIN 53019	200 – 500 mPas
pH (25 °C)	6 – 9 delivered form

Application

TEGO® Antifoam 4–88 provides reliable foam control during production and final formulation of polymer dispersions that are used for paper, adhesives and other application of polymer dispersions.

It may also be used in aqueous media (e. g. industrial and household cleaners) where the use of traditional silicone oil based antifoams is restricted for certain reasons. TEGO® Antifoam 4–88 is also recommended for PU dispersions.

Benefits

The special raw material which comprises TEGO® Antifoam 4–88 gets a unique product profile that combines excellent efficiency with maximum compatibility at the same time so that undesirable effects like craters or fish eyes can be eliminated.

The TEGO® Antifoam product range exceeds customer requirements according to:

- foam formation during compounding of a final formulation
- foam formation during the application of the adhesive
- inadequate storage stability

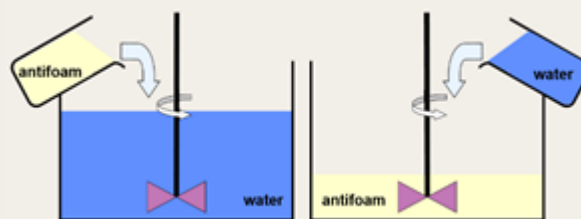
Dosage

TEGO® Antifoam 4–88 is typically used as an aqueous pre-dilution in a ratio of 1 : 1 to 1 : 10.

Depending on the application in question the required dosage may vary over a wide range (0.05 to 0.2 %). Suitable screening tests are therefore recommended (initial dosage: 0.05 %).

Handling

Dilution of TEGO® Antifoam 4–88 may proceed by both adding the desired amount of TEGO® Antifoam 4–88 to water or adding water to TEGO® Antifoam 4–88 while stirring gently at low shear rates.



The pre-dilution will shorten the storage stability. 1 : 1 dilutions prepared as described above are stable for several days. 1 : 10 dilutions should be processed within several hours.

The product has to be stirred before use.

Food contact status

FDA Regulation

TEGO® Antifoam 4–88 may be used as a defoaming agent in adhesives, paper and paperboard and as a component in polymeric coatings, and is in compliance with

21 CFR 175.105 (Adhesives),

21 CFR 175.125 (Pressure-sensitive adhesives),

21 CFR 175.300 (Polymeric coatings),

21 CFR 176.170 (Components of paper and paperboard in contact with aqueous and fatty foods),

21 CFR 176.180 (Components of paper and paperboard in contact with dry food),

21 CFR 176.200 (Defoaming agents used in coatings) and

21 CFR 176.210 (Defoaming agents used in the manufacture of paper and paper-board).

The maximum use in all applications is 200 mg/m² food contact area.

European Regulation 10/2011 and amendments

TEGO® Antifoam 4–88 can be used in accordance with Regulation 10/2011/EU.

Recommendations of the BfR

TEGO® Antifoam 4–88 complies with the XIVth BfR Recommendation.

Polymer Dispersions that comply with the XIVth Recommendation may be further used as production auxiliary according to the BfR Recommendation XXXVI under B. I. 10.

Registration status

The components of TEGO® Antifoam 4–88 are listed in the following chemical inventories:

EINECS, TSCA, ENCS, AICS, PICCS, IECSC, DSL, ECL, TCSI and NZIOC

Based on the submitted information of our raw material suppliers we can confirm, that TEGO® Antifoam 4–88 is compliant with EC Regulation 1907/2006 (REACH).

Storage stability

TEGO® Antifoam 4–88 is stable in closed containers for a minimum of 6 months.

TEGO® Antifoam 4–88 must be stored in frost-free conditions.

Packaging

200 kg plastic drums (800 kg each pallet)
1 000 kg containers

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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