Technical Information

TEGO® Antifoam KE 600

TEGO® Antifoam KE 600 is an APEO-free organic antifoam emulsion based on polyethers, containing small amounts of organo-modified siloxanes for enhancing the efficiency; dilutions show excellent stability.

Physical properties

Appearance	white emulsion
Active content	60 %
Density (25 °C)	approx. 1.0 g/cm³
Viscosity, dynamic (25 °C)	approx. 200 mPas
pH (25° C) 1:10 dilution in water	7 – 9

Application fields

TEGO® Antifoam KE 600 destroys foam or prevents foam formation reliably in aqueous media and may therefore be used in a variety of industrial applications:

- in emulsion, suspension and micro suspension polymerization of PVC throughout all process steps, especially for S-PVC production*
- in the production of paper and paperboard
- in process and waste water applications
- in a multitude of other industrial applications especially if high pH stability is requested

*Special information on this application is available on request.

Benefits

TEGO® Antifoam KE 600 outperforms conventional organic antifoams in many respects, in particular regarding dispersibility and dilution stability. Furthermore undesirable effects associated with other organic or silicone antifoams (e. g. fogging of PVC, surface defects of coated and uncoated paper) can be very much reduced or even eliminated.

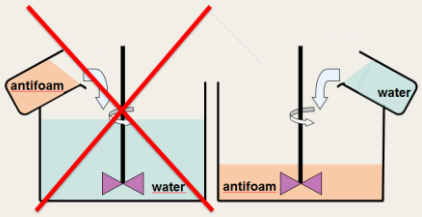
Dosage

Though TEGO® Antifoam KE 600 may be applied as delivered the outstanding dilution stability makes this antifoam suitable for application from low concentrated dilutions (1 : 3 to 1 : 20). This results in a very cost effective application of the antifoam.

Depending on the application in question the required dosage may vary over a wide range (0.005 to 0.2 %); suitable screening tests are therefore recommended (initial dosage: 0.1 %). 0.01 to 0.02 % TEGO® Antifoam KE 600 is a typical dosage for S-PVC processes using PVOH or cellulose as suspension aid.

Handling

When applying TEGO® Antifoam KE 600 a predilution is required and can be created by adding water **to** TEGO® Antifoam KE 600 while stirring at low shear rates.



Dilutions of TEGO® Antifoam KE 600 that are prepared in this way are stable for 1 to 2 days.

Food contact status

BfR recommendations

Information is available on request.

European Regulation 10/2011

Information is available on request.

FDA regulation

TEGO® Antifoam KE 600 complies with 21 CFR 176.210 – (Defoaming agents used in the manufacture of paper and paperboard) and 21 CFR 175.105 (Adhesives).
PVC containing TEGO® Antifoam KE 600 up to maximum concentrations of 800 ppm, which is much above the typical use level of 100–200 ppm, may be safely used in compliance with 21 CFR 175.300 (resinous and polymeric coatings) and 21 CFR 177.1210 (closures with sealing gaskets for food containers).

Registration status

The components of TEGO® Antifoam KE 600 are listed in the following chemical inventories:

EINECS, TSCA, DSL, ENCS, AICS, ECL, PICCS, CHINA, NZIOC, TAIWAN

Storage stability

TEGO® Antifoam KE 600 is stable in closed containers for a minimum of 6 months. The product has to be kept under 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.

07/2016

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