

Technical Information

TEGOPREN® 5885

TEGOPREN® 5885 is a hydrophobic, non-ionic, polyether siloxane based wetting and dispersing agent.

Physical properties

Viscosity at 25 °C	approx. 100 mPas
Gardner colour number	< = 10
Density	approx. 1 g/ml
Appearance	clear to slightly turbid, yellowish to brownish
Active matter content	100 %

Application

TEGOPREN® 5885 is a highly efficient substrate wetting additive for a variety of systems:

- Water-based systems as used for paper laminates and other application.
- Solvent-based or solvent-containing systems.

TEGOPREN® 5885 is a highly efficient dispersing agent, which improves the incorporation of fillers and in different plastics such as EVA, X-PE, PE etc. and therefore suitable for cable compounds.

TEGOPREN® 5885 can be used for surface treatment of fillers at the manufacturing place, in high speed mixer for treatment at the compounder place or as in situ treatment while compounding the filler, pigment or flame retardant.

TEGOPREN® 5885 is a highly efficient additive for pulp and paper antifoams based on organic oils or siloxanes to improve their performance.

Benefits

Especially suitable for water-based formulations, where the following advantages can be observed:

- No or very low foam formation, even if no additional defoamer is used.
- Improves the wetting of low energy substrates due to extreme lowering of the surface tension of water-based systems.
- Improved durability.

TEGOPREN® 5885 is a hydrophobic surfactant with a high affinity to fillers. The use in the production of cable compounds shows outstanding advantages like:

- Improved dispersing of fillers.
- Better hydrophobicity.
- Smooth and supple cable surfaces.
- No influence on afterwards printing.

By use of TEGOPREN® 5885 in pulp and paper defoamer formulations, the following benefits can be achieved:

- Improved knock down and hold down of defoamers containing TEGOPREN® 5885.
- Better high pH stability versus conventional polyethersiloxane boosted defoamers.
- Cost savings based on better fiber wetting during brown stock washing and bleaching.

Dosage

In water-based systems the typical addition level is between 0.05 and 0.8 % related to the formulation. Direct dosage (without pre-dilution) to the formulation is preferred.

In absence of metering systems for small scale, very low dosage levels could be applied by dilution. Suitable let-down liquids are isopropanol, butylglycol, Dowanol PM, Proglide DMM.

To improve the dispersion of fillers in cable compounds a dosage between 1 % and 2 % is recommended, especially if untreated ATH or Mg(OH)₂ is used.

For initial evaluation in pulp and paper defoamers, we recommend a dosage of 0.25 % to 2.0 % of TEGOPREN® 5885 to oil based defoamers and 1.0 % – 5.0 % of TEGOPREN® 5885 to silicone based defoamer concentrates.

Food Contact Status

FDA

TEGOPREN® 5885 complies with 21 CFR 175.105 (adhesives) and 21 CFR 176.210 (production of pulp and paper).

Registration

The ingredients of TEGOPREN® 5885 are listed on the following chemical inventories:

EINECS, TSCA, DSL, ENCS, ECL

Based on the submitted information of our raw material suppliers we can confirm, that TEGOPREN® 5885 is compliant with EC Regulation 1907/2006 (REACH).

Storage stability

TEGOPREN® 5885 is stable in closed containers at least for one year.

Packaging

200 kg Steel drum (800 kg each pallet)

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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