PRODUCT TECHNICAL DATA

Mineral-Oil Emulsion Defoamer DF580

Product Description

DF580 is an emulsion defoamer composed of mineral oil and nonionic surfactants. It is an APEO-free, silicone-free, general-purpose defoamer for aqueous systems. It combines rapid foam knockdown with long-lasting efficiency and is designed for economical foam control in latex paints without adversely affecting gloss.

Product Features

- General-purpose and suitable for a broad range of aqueous systems.
- Rapid foam knockdown with long-lasting efficiency.
- Effective in acidic and alkaline media.
- Silicone-free and supports good intercoat adhesion.
- Negligible effect on gloss.
- Controls foam during paint preparation, packaging and application.
- Retains defoaming performance after long-term storage in the paint.
- Good storage stability.

Typical Applications

DF580 is suitable for the following applications:

- General decorative coatings.
- Silk and low-sheen finishes.
- High-gloss coatings.
- Clear coatings and wood finishes.
- Waterborne printing inks.
- Botanical and vegetable washing applications.
- Adhesives.

Typical Properties

Typical properties are provided for guidance and are not intended as release specifications.

Property	Typical value
Appearance (25°C)	Opaque liquid
Active content	99.9%
Viscosity (Brookfield RVT, spindle 2, 20 rpm, 25°C)	500-2,000 cP
Specific gravity (25°C)	0.91-0.94

Method of Use

DF580 can be added directly to the system without pre-dilution. Agitate the product before use. Split addition is recommended: add 1/3 to 2/3 of the total amount before pigment dispersion and add the remainder during let-down. Agitate the coating thoroughly after addition to ensure uniform dispersion.

Recommended Dosage

Dosages are retained from the source technical sheet. Confirm the calculation basis and suitability for the intended formulation before production use.

Application	Recommended dosage
Waterborne matt paint	0.3%-0.5%
Silk and low-sheen paint	0.2%-0.5%
High-gloss and clear coating	0.1%-0.5%
Adhesive	0.1%-0.2%

Storage and Packaging

Protect the product from freezing. Store in a cool, dry and ventilated place at 5-35°C, away from open flame and direct sunlight. Keep the container tightly closed. Shelf life: 12 months. Packaging: 20 kg and 170 kg.