

Technical Data Sheet (TDS)

Product Name: Oil-based Defoamer

Product Code: CD-2846

Revision Date: 2025-02-09

1. Product Description

CD-2846 is formulated with a synergistic blend of hydrophobic carriers and low-viscosity surface-active agents, delivering rapid foam knockdown and extended suppression in high-load industrial systems. Its non-water-soluble structure ensures excellent performance in systems where silicone-based or water-based defoamers fail, such as high-TDS wastewater, oil processing, fermentation, and metal cleaning. With superior spread ability, low surface tension, and strong chemical compatibility, this product maintains effectiveness in high-viscosity, high-temperature, and high-shear environments minimizing re-foaming and reducing total chemical consumption over time.

2. Typical Properties

Appearance	Milky white or light yellow liquid
Viscosity (25°C)	300-1000 mPa·s
Active Content	100%
Density (25°C)	0.85-0.95 g/cm ³
Solubility	Insoluble in water, soluble in oil
pH (10% emulsion)	6.0-8.0

3. Key Features

- Excellent defoaming and foam suppression performance
- High stability under extreme processing conditions
- Good dispersibility in oil-based systems
- Long-lasting effect and low dosage requirement

4. Applications

Suitable for oil drilling fluids, lubricants, metalworking fluids, oil-based coatings, and other hydrophobic systems where foaming is problematic.

5. Usage & Dosage

Recommended dosage is 0.1%–0.5% of the total formulation. The exact dosage should be optimized through testing based on specific application needs.

6. Storage & Handling

Store in a cool, dry place. Keep container tightly closed when not in use. Avoid direct sunlight and freezing temperatures. Shelf life is 12 months from the date of manufacture.

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