

Technical Data Sheet (TDS)

Product Name: Acid-Alkali Resistant Defoamer

Product Code: CD-6382

Revision Date: 2025-02-09

1. Product Description

CD-6382 is specially engineered with polyether-modified silicone and high molecular weight surfactants, synergistically combined with ultra-hydrophobic silica particles to deliver superior foam control under extreme pH conditions (pH 1 – 14). Its robust three-phase dispersion system ensures rapid foam knockdown and long-lasting suppression even in high-temperature and high-viscosity environments such as metal cleaning, electroplating, chemical processing, and pulp & paper. Compared to conventional defoamers, it offers enhanced system compatibility, reduced dosage requirements, and extended performance longevity, making it the ideal solution for foam management in highly acidic or alkaline systems.

2. Typical Physical Properties

Property	Value
Appearance	Opaque white emulsion
pH	5.5 – 8.5
Viscosity (25°C)	1000 – 2000 mPa·s
Density (25°C)	0.98 – 1.08 g/cm ³
Active Content	30%
Flash Point	> 150°C
Solubility	Dispersible in water
Stability Range	pH 1 – 14
Storage Temperature	5°C – 35°C

3. Applications

- Acid and alkaline cleaning processes
- Metal finishing and surface treatment
- Industrial wastewater treatment
- Chemical processing with extreme pH conditions

4. Usage Guidelines

CD-6382 should be added directly to the system either during or prior to foaming. Typical dosage ranges from 50 - 300 ppm depending on foaming severity and system conditions. Preliminary testing is recommended to optimize performance.

5. Storage and Packaging

Store in a tightly closed container at 5°C to 35°C. Do not allow to freeze.

Shelf life is 12 months from the date of manufacture.

Available in 25 kg pails and 200 kg drums.

6. Safety Information

Consult the Material Safety Data Sheet - MSDS before handling. Ensure adequate ventilation and use appropriate personal protective equipment - PPE.

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