



Technical Data Sheet

XIAMETER™ AFE-1410 Antifoam Emulsion

Water-dilutable, 10 percent active silicone emulsion that is designed to control foam in aqueous systems.

Features & Benefits

- Exempt from tolerance at 40 CFR 180.1001 (d) for pesticide formulations applied to growing crops only
- Works effectively in very low concentrations
- Works effectively in extreme pH conditions
- Preservative to guard against microbial growth
- Antifoaming in aqueous systems from highly acidic to highly alkaline
- Good stability
- Easily dispersed as supplied or when diluted

Composition

- Milky-white liquid
- Silicone emulsion

Applications

- Agrochemicals
- Textiles
- Gas processing
- Printing fountain solutions
- Resin manufacturing
- Antifoaming in aqueous systems from highly acidic to highly alkaline

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

| Property | Result |
|----------------------------------|------------|
| Appearance | White |
| Active Ingredient, Percent | 10 |
| Specific Gravity, at 25°C (77°F) | 1.0 |
| Viscosity at 25°C (77°F), cp | 3,500 |
| Consistency at 25°C (77°F) | Medium |
| Emulsifier Type | Nonionic |
| Suitable Diluent | Cool water |

How to Use

Amount Needed

XIAMETER™ AFE-1410 Antifoam Emulsion works effectively in very low concentrations. One to 100 parts of active silicone per million parts foamer are sufficient to eliminate most foams. Begin trials at higher use levels (50 ppm active silicone), then work down to the level of foam control desired.

The following are parts per million equivalents:

| | |
|--------------------------|--------|
| 33.4 oz. in 500 gal. | 50 ppm |
| 66.7 oz. in 1,000 gal. | 50 ppm |
| 166.8 oz. in 2,500 gal. | 50 ppm |
| 50.0 qts. in 25,000 gal. | 50 ppm |

Adding the Antifoam

To produce optimal foam control, it is necessary to have the antifoam completely dispersed in the foaming medium. Follow these steps to achieve complete dispersion:

1. Agitate the product prior to use.
2. Predilute with 3 to 10 parts of water to aid in dispersion. Add the antifoam to the water with slow mixing. Prediluted material should be used immediately. If the system can provide adequate agitation to disperse the antifoam, the antifoam emulsion may be added directly without predilution being necessary.
3. Add the antifoam prior to the point where foaming occurs within the system, if possible.

A preservative to guard against microbial growth is included in XIAMETER™ AFE-1410 Antifoam Emulsion. Dilution will substantially diminish the effectiveness of the preservative. If diluted material is to be stored for more than several days, additional preservative may be required.

Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life and Storage

Product should be stored between 20 and 40°C (68 and 104°F) in original, unopened containers.

During prolonged storage there may be a slight tendency for product separation; therefore, it is recommended that XIAMETER™ AFE-1410 Antifoam Emulsion be gently agitated prior to use to ensure homogeneity.

XIAMETER™ AFE-1410 Antifoam Emulsion will freeze below 0°C (32°F). If frozen, allow to thaw at 18–29° C (64.4–84.2°F) for at least one day and agitate gently to assure homogeneity.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Not intended for human injection. Not intended for food use.

**Shipping
Limitations**

None.

**Health and
Environmental
Information**

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, consumer.dow.com or consult your local Dow representative.

consumer.dow.com

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