



Technical Data Sheet

XIAMETER™ AFE-1010 Antifoam Emulsion

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

Features & Benefits

- Water dilutable
- Easily dispersed

Composition

- Low viscosity, silicone emulsion

Applications

XIAMETER™ AFE-1010 Antifoam Emulsion can be used in a variety of industrial applications. Some typical uses include:

- Distillation application
- Boiler systems
- Paper and printing solutions
- Textiles
- Chemical scrubbing
- Agrochemicals

Typical Properties

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

Property	Unit	Result
Appearance		White
Active Ingredient	%	10
Specific Gravity at 25°C (77°F)		1.0
Viscosity at 25°C (77°F)	cp	500
pH		4
Emulsifier Type		Nonionic
Suitable Diluent		Cool Water

FDA Status

XIAMETER AFE-1010 Antifoam Emulsion is permissible to use as a component of paper that may come in contact with foods; see FDA Regulations 21 CFR 176.210 and 21 CFR 175.105.

EPA Status

XIAMETER AFE-1010 Antifoam Emulsion is exempt from tolerance at 40 CFR 180.910.

How To Use

XIAMETER AFE-1010 Antifoam Emulsion works effectively in very low concentrations. One to 10 parts of active silicone per million parts foamer are sufficient to control foaming in many systems. 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 ounces	500 gallons	= 50 ppm
66.7 ounces	1,000 gallons	= 50 ppm
166.8 ounces	2,500 gallons	= 50 ppm
50.0 quarts	25,000 gallons	= 50 ppm

Adding the Antifoam

To produce optimal foam control, the antifoam must be 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 cool water 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 to the point where foaming occurs within the system, if possible.

A preservative to guard against microbial growth is included in XIAMETER AFE-1010 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. Contact Dow for additional information.

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 WWW.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.

This product will freeze at or below 0°C (32°F). If frozen, it can be thawed and used without loss of efficiency. Agitation may be required. Avoid storage conditions above 40°C (104°F).

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.

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, www.consumer.dow.com or consult your local Dow representative.

<http://www.xiameter.com>

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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