Technical Data Sheet

XIAMETER™ AFE-1520 Antifoam Emulsion

20 percent active, food-grade, silicone emulsion

Features & Benefits

- Water-dilutable
- Foam prevention in food and chemical processes
- Economical
- Easy to use
- Effective in both hot and cold systems
- Effective in low concentrations

Composition

- Milky-white liquid
- Silicone emulsion

Applications

- Food processing
- Chemical
- Agrichemical
- Beverage manufacturing
- Meat, poultry and seafood applications
- Chemical fermentation operations
- Waste water treatment
- Vegetable processing

Typical Properties

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

Property	Unit	Result
Appearance		White
Active Ingredient	%	20
Specific Gravity, at 25°C (77°F)		1.0
Viscosity at 25°C (77°F)	cp	6,000
pH		4
Emulsifier Type		Non-ionic
Suitable Diluent		Cool water

Form No. 95-858-01-0622 S2D

Description

XIAMETER™ AFE-1520 Antifoam Emulsion is a 20 percent-active, food grade, silicone emulsion. This antifoam is water dilutable and effective in both hot and cold systems.

Food Regulation Status

To get the status of XIAMETER™ AFE-1520 Antifoam Emulsion, please always refer to the Food Additive/Food Contact – Regulatory Information sheet available on request to our customer service.

Kosher Acceptance

Kosher certified product available. Contact your local representative for current compliance information.

Halal Compliance

Please contact your local representative for current Halal compliance documentation.

GMO Status

XIAMETER™ AFE-1520 Antifoam Emulsion does not contain genetically modified organisms. Dow does not test for genetically modified organics.

How to Use

Amount Needed
XIAMETER™ AFE-1520 Antifoam Emulsion is effective in very low concentrations. One to ten parts of active silicone per million parts foamer are sufficient to control foaming in many systems.

Begin trials at higher levels (10 ppm active silicone), then work down to the level of foam control desired.

The following are parts per million equivalents:

- 3.35 fl oz in 500 gal = 10 ppm (99.07 mL in 1892.65 L = 10 ppm)
- 6.65 fl oz in 1,000 gal = 10 ppm (192.22 mL in 3785.3 L = 10 ppm)
- 16.7 fl oz in 2,500 gal = 10 ppm (493.87 mL in 9463.25 L = 10 ppm)
- 5.0 qt in 25,000 gal = 10 ppm (4.7315 L in 94632.5 L = 10 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 product prior to use.
2. Predilute with 3 to 10 parts of cool 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.
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-1520 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 DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

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.

Usable Life and Storage

Product should be stored between 5 and 40°C (41 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-1520 Antifoam Emulsion be gently agitated prior to use to ensure homogeneity.

It is common to see a decrease in viscosity with this product over the course of its shelf life. However, performance should not be affected.

XIAMETER™ AFE-1520 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.

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, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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