

XIAMETER[®] AFE-1530 Antifoam Emulsion

30% active, food-grade silicone emulsion

FEATURES

- Water-dilutable
- Foam control in food and chemical processes

BENEFITS

- Easy to use
- Excellent food-grade antifoaming-persistency performance
- Economical
- Effective in both hot and cold systems
- Effective at low concentrations

APPLICATIONS

Potential applications may include:

- Food processing
- Chemical manufacturing
- Agricultural chemicals
- Beverage manufacturing
- Meat, poultry and seafood applications
- Chemical fermentation operations
- Wastewater treatment
- Vegetable processing
- Formulating or processing aid for personal care products

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local XIAMETER[®] sales representative prior to writing specifications on this product.

Test	Unit	Value
Appearance		White, off-white
Active Ingredient	%	30
Specific Gravity at 25°C (77°F)		1.0
Viscosity at 25°C (77°F)	cp	3000
Consistency at 25°C (77°F)		Thick
pH		2.4
Suitable Diluent		Cool water

DESCRIPTION

XIAMETER[®] AFE-1530 Antifoam Emulsion is a 30% active, food-grade silicone emulsion. This antifoam is water-dilutable and is effective in both hot and cold systems.

FDA STATUS

XIAMETER AFE-1530 Antifoam Emulsion complies with the requirements of the U.S. FDA regulation "Code of Federal Regulations 21 CFR" concerning food contact applications if used in accordance with:

- 21 CFR Section 175.105: "Adhesives."
- 21 CFR Section 175.300: "Resinous and polymeric coatings."

- 21 CFR Section 176.170: "Components of paper and paperboard in contact with aqueous and fatty foods."
- 21 CFR Section 176.180: "Components of paper and paperboard in contact with dry foods."
- 21 CFR Section 176.200: "Defoaming agents used in coatings."
- 21 CFR Section 176.210: "Defoaming agents used in the manufacture of paper and paperboard."
- 21 CFR Section 173.340: "Defoaming agents." Product contains 30% PDMS; thus, it may be added at 3.33 times the limits outlined in the federal regulation. See use limitations

outlined in the regulation before using.

EPA STATUS

XIAMETER AFE-1530 Antifoam Emulsion is Approved under 40 CFR 180.910 (no limit) and 40 CFR 180.940(b) and (c) at a maximum of 22.8% in final pesticide formulations.

KOSHER ACCEPTANCE

This antifoam is certified for use in the processing of kosher foods.

HALAL ACCEPTANCE

This antifoam is certified for use in the processing of halal foods.

EUROPEAN COMMUNITY DIRECTIVES

The active substance in this product is authorized as food additive following Regulation (EC) 1333/2008 and amendments of the European Parliament and of the Council by establishing a Union list of food additives. The active substance in this product is dimethyl polysiloxane (E 900) for which Annex II Part E sets up the conditions of use in food categories:

- Fats and oils essentially free from water (excluding anhydrous milkfat): ML = 10 mg/kg, only oils and fats for frying
- Other fat and oil emulsions including spreads as defined by Council Regulation (EC) No 1234/2007 and liquid emulsions: ML = 10 mg/kg, only oils and fats for frying
- Canned or bottled fruit and vegetables: ML = 10 mg/kg
- Jam, jellies and marmalades and sweetened chestnut purée as defined by Directive 2001/113/EC: ML = 10 mg/kg
- Other similar fruit or vegetable spreads: ML = 10 mg/kg
- Other confectionery including breath-freshening microsweets: ML = 10 mg/kg

- Decorations, coatings and fillings, except fruit-based fillings covered by category 4.2.4: ML = 10 mg/kg
- Batters: ML = 10 mg/kg; Soups and broths: ML = 10 mg/kg
- Fruit juices as defined by Directive 2001/112/EC and vegetable juices: ML = 10 mg/l, only pineapple juice and Sød, saft and sødet, saft
- Flavored drinks: ML = 10 mg/l; Cider and perry: ML = 10 mg/l, excluding cidre bouché
- Chewing gum: ML = 100 mg/kg
- Food supplements supplied in a solid form including capsules and tablets and similar forms, excluding chewable forms: ML = 10 mg/kg, only food supplements in effervescent tablet form (maximum level applies to the dissolved food supplement ready for consumption when diluted with 200 ml of water)

Annex III sets the conditions of use in food additives, food enzymes, food flavourings and nutrients:

- Glazing agents for fruit: at quantum satis (Definition of quantum satis is provided in Article 3 (h))
- Colour preparations of E160a carotenes, E160b annatto, bixin, norbixin, E160c Paprika extract, capsanthin, capsorubin, E160d lycopene and E160e beta-apo-8'-carotenal: maximum level = 200 mg/kg in the preparation, 0,2 mg/l in final food
- All flavourings: maximum level = 10 mg/kg in flavourings
- In preparations of beta-carotene and lycopene (nutrients): maximum level = 200 mg/kg in the preparation, 0,2 mg/l in final food

The composition of this product has been positively assessed according to Commission

Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food, and amendments.

FOOD STATUS IN CHINA AND JAPAN

XIAMETER AFE-1530 Antifoam Emulsion has not yet been approved for food contact use in China or Japan. For up-to-date food status information for these countries, contact your local XIAMETER® sales representative.

GMO STATUS

XIAMETER AFE-1530 Antifoam Emulsion does not contain genetically modified organisms. Dow Corning does not test for genetically modified organics.

HOW TO USE

Amount Needed

XIAMETER AFE-1530 Antifoam Emulsion is effective in very low concentrations. One to 10 parts of active silicone per million parts of foamer are sufficient to control foaming in many systems. Begin trials at higher use levels (10 ppm active silicone), then work down to the level of foam control desired.

The following are parts per million equivalents:

To yield 10 ppm

Antifoam	Mixed in
34 g	1000 kg
34 ml	1000 Liter

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 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 directly with no predilution 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-1530 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 XIAMETER® customer support for additional information.

PRODUCT SAFETY INFORMATION

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE XIAMETER® WEBSITE AT WWW.XIAMETER.COM.

STORAGE

Product should be stored between 5 and 35°C (41 and 95°F) in original, unopened containers. The most up-to-date shelf life information can be found on the XIAMETER website in the Product Detail page under Sales Specification.

During prolonged storage, there may be a slight tendency for product separation; therefore, it is

recommended that XIAMETER AFE-1530 Antifoam Emulsion be gently agitated prior to use to ensure homogeneity.

XIAMETER AFE-1530 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.

XIAMETER AFE-1530 Antifoam Emulsion can gel over 35°C (95°F). If gel, allow to liquefy 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.

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.

Dow Corning's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE

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