

XIAMETER[®] AFE-1510 Antifoam Emulsion

10 percent active, food-grade, silicone emulsion INCI Name: Simethicone

FEATURES

- Foam prevention in food and chemical processes
- Free of raw materials derived from animals
- Approved for food contact
- Water-dilutable
- Preservative to guard against microbial growth

BENEFITS

- Effective in both hot and cold systems
- Easy to use
- Effective in low concentrations

COMPOSITION

- 10 percent active silicone emulsion

APPLICATIONS

XIAMETER[®] AFE-1510 Antifoam Emulsion can be in areas where a food-contact approved product is required due to the nature of the process.

- Food processing
- Beverages
- Vegetable washing
- Cosmetic
- Personal cleansers/conditioners
- Agrochemical
- Waste water treatment
- Pesticide production

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
Active Ingredient	%	10
Specific Gravity at 25°C(77°F)		1.0
Viscosity at 25°C (77°F)	cp	2,000
pH		3-4
Emulsifier Type		Non-ionic

FOOD REGULATION STATUS

XIAMETER AFE-1510 Antifoam Emulsion was specifically formulated for food contact applications.

FDA STATUS

XIAMETER AFE -1510 Antifoam Emulsion complies with FDA Regulation 21 CFR 173.340, which covers secondary direct food additives used as defoaming agents. This allows concentrations of up to 10 parts per million active silicone (dimethylpolysiloxane) in non-standardized foods.

The ingredients also comply with the following FDA sections:

- 175.105 – Adhesives
- 175.300 – Resinous and polymeric coatings
- 175.320 – Resinous and polymeric coatings for polyolefin films
- 176.170 – Components of paper and paperboard in contact with aqueous and fatty foods
- 176.180 – Components of paper and paperboard in contact with dry foods
- 176.200 – Defoaming agents used in coatings
- 176.210 – Defoaming agents used in the manufacture of paper and paperboard.

USDA STATUS

This product is authorized by USDA for use in federally inspected meat and poultry plants.

EPA STATUS

XIAMETER AFE -1510 Antifoam Emulsion Antifoam 1510-US is exempt from tolerance at 40 CFR 180.1001.910.

The ingredients are exempt from tolerances at 40 CFR 180.910, 40 CFR 180.920 and 40 CFR 180.960.

BGVV STATUS

XIAMETER AFE -1510 Antifoam Emulsion complies with BGVV Recommendation XXXVI (paper and cardboard).

EUROPEAN COMMUNITY DIRECTIVES

- 95/2 Part 1/2 - Jam, jellies and marmalades as defined in Directive 79/693/EEC and similar fruit spreads, including low calorie products: maximum 10 mg/kg. Soups and broths: maximum 10 mg/kg. Oils and fats for frying: maximum 10 mg/kg. Confectionery (excluding chocolate): maximum 10 mg/kg. Non-alcoholic flavored drinks: maximum 10 mg/L. Pineapple juice maximum: 10 mg/L. Canned and bottled fruit and vegetables: maximum 10 mg/kg. Chewing gum: maximum 100 mg/kg.
- 95/2 Part 2/2 - (pro memoria) Wine in accordance with Regulation (EEC) No. 1873/84 authorizing the offer or disposal for direct human consumption of certain imported wines that may have undergone

oenological processes not provided for in Regulation (EEC) No. 337/79.

Sød...saft: maximum 10 mg/L. Batters: maximum 10 mg/kg. Cider (excluding cidre bouché): maximum 10 mg/L. Flavorings: maximum 10 mg/kg.

- 90/128/EC - The EU Directive 2002/72/EC and its amendments up to and including Directive 2004/19/EC, relating to plastic materials and articles intended to come into contact with foodstuffs.

Ⓢ KOSHER ACCEPTANCE

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

GMO STATUS

XIAMETER AFE -1510 Antifoam Emulsion does not contain genetically modified organisms. Dow Corning does not test for genetically modified organics.

ORIGIN OF INGREDIENTS

The ingredients in XIAMETER AFE -1510 Antifoam Emulsion are not derived from animals.

HOW TO USE

How to Apply

XIAMETER AFE-1510 Antifoam Emulsion can be used in aqueous medium, either neat or diluted with cool water.

Prediluted material should be used as soon as possible.

Material diluted to 50 ppm in deionized water was found to be stable at 40°C (104°F) for one week.

A preservative to guard against microbial growth is included in XIAMETER AFE-1510 Antifoam Emulsion. Dilution will diminish the effectiveness of the

preservative, therefore if the diluted material is to be stored for more than several days, additional preservative maybe required.

The neat or diluted material can be added to the foaming medium either on a continuous basis (using a metering pump or similar equipment) or on demand.

Amount Needed

The recommended starting concentration is 100 parts of active silicone per million parts foamer.

However in many systems, 1 to 10ppm is sufficient to control foaming. Therefore, begin trials at higher levels and reduce down as required. The following are parts per million equivalents:

To Yield 10 ppm	
Antifoam	Mixed in
198.14 mL	1892.65 L
6.7 oz in	500 gal

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® WEB SITE AT WWW.XIAMETER.COM.

STORAGE AND TRANSPORT

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 Web site 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-1510 Antifoam Emulsion be gently agitated prior to use to ensure homogeneity.

XIAMETER AFE-1510 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.

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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