



DATA SHEET #NFC130

AER-O-FOAM XLX-3 Fluoroprotein Foam Concentrate

Description

Aer-O-Foam® XLX-3 is a fluoroprotein foam, useful for extinguishing fires involving hydrocarbon fuels.

Aer-O-Foam XLX-3 is listed by Underwriters Laboratories for use on hydrocarbons at 3% proportioning, using either fresh or saltwater. The UL listings for Aer-O-Foam® XLX-3 foam concentrate include its application through a variety of proportioners and foam making devices. Consult the National Foam Engineering Manual for a complete list of these devices.

Applications

Aer-O-Foam® XLX-3 is suitable for use in combating fires in storage tanks, loading racks, docks, ships, process areas and warehouses. It can be used in aircraft hanger systems and for airport emergency/crash fire rescue applications.

Technical Information

Aer-O-Foam® XLX-3 is a protein based foam, added fluorochemical surfactant makes it highly tolerant to hydrocarbon fuel contamination. Aer-O-Foam® XLX-3 is suitable for both top-side and sub-surface application to hydrocarbon flammable liquid storage tank fires. Aer-O-Foam® XLX-3 can be used in foam-water sprinkler systems and through a large number of air-aspirating foam making devices. The fluorochemical surface active agents in Aer-O-Foam® XLX-3 foam concentrate give the foam a degree of compatibility with dry chemical extinguishing agents such as Potassium Bicarbonate. It makes the foam blanket more fluid, and enables it to flow more readily around obstacles in the fire area and enhances the resealability when the blanket is disrupted. The properties of the fluorochemical surfactant, in conjunction with those of the hydrolyzed protein insure a stable, long lasting foam blanket to give protection against vaporization and reignition of common hydrocarbon fuels.

Aer-O-Foam® XLX-3 is designed for use on hydrocarbon fuels such as crude oil, gasoline and fuel oils. It is not suitable for use on polar solvents or water miscible fuels such as ethyl and methyl alcohols, ketones, aldehydes, and ethers.

Typical Physical Properties

Appearance Dark Brown Color
Specific Gravity at 20°C 1.11
pH 7.3
Viscosity at 20°C 9.0 csk
Freezing Point 19°F(-7°C)
Min. Usable Temperature 35°F(2°C)
Max. Usable Temperature 120°F(49°C)

Compatibility

Aer-O-Foam® XLX-3 shall not be mixed with other manufacturers foam concentrates except for immediate use in emergency situations.

Shelf Life

The shelf life of any foam concentrate is maximized by proper storage conditions and maintenance. Factors affecting shelf life are wide temperature changes, extreme high or low temperatures, evaporation, dilution, and contamination by foreign materials.

Annual testing of all firefighting foam is recommended by the National Fire Protection Association (NFPA). National Foam provides a Technical Service Program to conduct such tests.

Storage and Handling

Aer-O-Foam® XLX-3 concentrate is best stored in its original, unopened, factory supplied shipping container. The storage environment shall be within the UL listed temperature range of 35°F to 120°F (2°C to 49°C).

Aer-O-Foam® XLX-3 may be stored in tanks constructed of mild steel, high density cross linked polyethylene, or reinforced fiberglass polyester (isophthalic polyester resin) with vinyl ester resin internal layer coating (50 - 100 mils). Mild steel piping and brass valves can be used. Stainless steel storage tanks and piping should not be used with Aer-O-Foam® XLX-3.

Failure to follow recommended maintenance procedures may result in the deterioration of foam concentrate quality and its fire fighting effectiveness. Foam equipment may be clogged or damaged by improperly maintained foam concentrates.

Environmental and Toxicological Information

Repeated skin contact will remove the oils from the skin and cause dryness. Wear protective equipment and wash with water if exposed. For further details see the Material Safety Data Sheet.

Aer-O-Foam® XLX-3 foam concentrate or foam solution shall not be discharged directly into waterways or biological sewer treatment systems. Disposal or discharge of Aer-O-Foam® XLX-3 concentrate or foam solution other than to a sewer system shall be made in accordance with federal, state and local regulations.

The Biological Oxygen Demand (BOD) and Chemical Oxygen Demand (COD) of Aer-O-Foam XLX-3 is:

BOD₅ 118,000 mg/kg
COD 491,000 mg/kg

Inspection and Testing

Aer-O-Foam® XLX-3 shall be inspected and tested as part of the regular fire fighting system maintenance program at least once a year. National Foam offers a Technical Service Program to conduct such tests. Contact National Foam for details.

Approvals and Listings

- Underwriters Laboratories Inc.

Aer-O-Foam® XLX-3 is listed by UL for use at 3% concentrate on hydrocarbon fuels. See the latest UL Fire Protection Equipment Directory for details on compatible equipment listings.

Ordering Information

CONTAINER	SHIPPING WEIGHT	PART NUMBER
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5-Gallon Pails (19 litres)	51 lb. (23.2 kg)	1111-4340-6
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55-Gallon Drums (208 litres)	554 lb. (251.8 kg)	1111-4481-6
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275-Gallon IBC Reusable Tote Tank (1041 litres)	2699 lb. (1226.8 kg)	1111-4725-6
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Bulk	9.27 lb./gal.(1.11 kg/l)	1111-4001-6
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Palletizing of pails and drums is available upon request.

SHIPPING CUBE

5-Gallon Pail 1.13 cu. ft. (0.032 cu. m)

55-Gallon Drum 11.51 cu. ft. (0.326 cu. m)

275-Gallon IBC Tote Tank 51.11 cu. ft. (1.1061 cu. m)

This information is only a general guideline. The company reserves the right to change any portion of this information without notice. Terms and conditions of sale apply and are available on request.

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