



Aer-O-Foam[®] XL-3^{C6}

Fluoroprotein Foam Concentrate
NFC120

- ✓ Use At 3% On Hydrocarbons, Fuel Oxygenates And Biodiesel
- ✓ Superior Quality Fluoroprotein Foam Concentrate
- ✓ Suitable for use with fresh or sea water.
- ✓ Compatible with standard proportioning and air aspirating foam making devices.
- ✓ Stable long-lasting foam blanket provides excellent burnback resistance.
- ✓ Suitable for use with foam compatible dry powder extinguishing agents.
- ✓ Underwriters Laboratories, Inc.
- ✓ Underwriters Laboratories of Canada (ULC).
- ✓ Formulated using 'C6' fluorosurfactant technology

**NF NATIONAL
FOAM**



Aer-O-Foam XL-3^{C6} 3% is manufactured utilizing a unique process which produces unmatched quality protein hydrolzate to form the foundation for the concentrate formulation. The protein base provides a long lasting stable foam blanket, highly resistive to the effects of heat. This prevents reignition and enhances burnback resistance. Fluorochemical surfactant additives (i.e. PFAS) are combined with the protein base to increase fluidity of the foam enabling it to seal around obstructions.

Aer-O-Foam XL-3^{C6} 3% is used in fire suppression systems and manual applications to fight fires involving hydrocarbon fuels such as crude oil, gasoline, and fuel oils. It is not suitable for use on most polar solvents or water miscible fuels such as alcohols, ketones, esters, and ethers. However, Aer-O-Foam XL-3^{C6} 3% has been found to be suitable for use on slightly polar fuels such as MTBE, ETBE, TAME, MTBE/gasoline motor fuel blends and biodiesel (methyl ester from lipid sources).

Typical storage tank systems include surface (topside) application or subsurface injection. Other uses include, loading racks, docks, process areas, spills, etc. For best performance, fluoroprotein foam concentrates should be used with aspirating nozzles and foam making devices.

Typical Physical Properties

Appearance..... Dark Brown Color
Specific Gravity at 68°F(20°C).....1.16
pH.....7.3
Viscosity at 68°F(20°C).....19.0 cST
Freezing Point.....8°F(-13°C)
Min Usable Temperature.....20°F(-7°C)
Max Usable Temperature.....120°F(49°C)

Underwriters Laboratories Listed Type II Application Rates

<u>Fuel Group</u>	<u>Application Rate gpm/ft² (l/m²)</u>
Hydrocarbons.....	0.10 (4.1)
Methyl Tertiary Butyl Ether.....	0.12 (4.9)
Ethyl Tertiary Butyl Ether.....	0.12 (4.9)
Tertiary Amyl Methyl Ether.....	0.12 (4.9)
17.5% MTBE/82.5% Gasoline.....	0.10 (4.1)
Biodiesel:	
(Methyl Ester from lipid sources).....	0.10 (4.1)

Please refer to UL Fire Protection Online Certifications Directory for additional information on application rates and other discharge devices.

Storage and Handling

Aer-O-Foam XL-3^{C6} 3% is ideally stored in its original shipping container or in tanks or other containers which have been designed for such foam storage. Recommended construction materials are carbon steel, high density cross-linked polyethylene or reinforced polyester (isophthalic polyester resin) with a vinyl ester resin internal layer coating (50-100 mils). Refer to National Foam Technical Bulletin NFTB100 for further information.

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Foam concentrates are subject to evaporation which accelerates when the product is exposed to air. Storage tanks should be sealed and fitted with a pressure vacuum vent to prevent free exchange of air. The recommended storage environment is within the UL listed temperature range of 20°F to 120°F (-7°C to 49°C). When product is stored in atmospheric storage tanks, contents must be covered with 1/4-inch (6.35mm) of National Foam Seal Oil to ensure prevention of air coming into contact with the foam concentrate. Use of Seal Oil is only recommended in stationary storage tanks. Refer to National Foam product data sheet NFC950 for further information.

Aer-O-Foam XL-3^{C6} 3% foam concentrate is freeze/thaw stable. Should the product freeze during shipment or storage, no performance loss is expected upon thawing.

It is recommended that Aer-O-Foam XL-3^{C6} 3% not be mixed with any other type of foam concentrate in long term storage. Such mixing could lead to chemical changes in the product and a possible reduction in or loss of firefighting

capability. Most expanded foams are compatible for side-by-side application during an incident.

Shelf Life, Inspection, and Testing

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. National Foam firefighting foam concentrates have been tested and have not shown significant loss of performance even after 10 years or more, provided annual testing and proper storage recommendations are followed. Refer to National Foam technical bulletin NFTB240 for recommendations on foam concentrate storage and preservation.

Annual testing of all firefighting foams is recommended by the National Fire Protection Association (NFPA). National Foam provides a Technical Service Program to conduct such tests. Refer to National Foam product data sheet NFC960 for further details on Technical Service Program.

Environmental and Toxicological Information

As all 'C6' foams contain PFAS please refer to the product's Safety Data Sheet (SDS) and website for more information regarding the use, discharge and disposal of all firefighting foam products.

Prevent foam concentrate and foam solution from entering ground water, surface water, or storm drains. Discharge and disposal of Aer-O-Foam XL-3^{C6} 3% concentrate or foam solution should be made in accordance with federal, state, and local regulations.

Aer-O-Foam XL-3^{C6} 3% has not been tested for acute toxicity, primary skin or primary eye irritation. Repeated skin contact will remove oils from the skin and cause dryness. Aer-O-Foam XL-3^{C6} 3% is a primary eye irritant and contact with the eyes should be avoided. Users are advised to wear protective equipment. If Aer-O-Foam XL-3 enters the eyes, flush them well with water and seek immediate medical attention. For further details, see the Aer-O-Foam XL-3^{C6} 3% Safety Data Sheet NMS120.

Ordering Information			
Container	Shipping Weight	Shipping Dimensions	Part Number
5-Gallon Pails (19 liters)	51 lb. (23.1 kg)	1.13 cu. ft. ³ (0.032 cu. m)	1111-1340-4
55-Gallon Drums (208 liters)	554 lb. (251.3 kg)	11.51 cu. ft. ³ (0.326 cu. m)	1111-1481-4
275-Gallon IBC Reusable Tote Tank (1041 liters)	2794 lb. (1267.4 kg)	51.11 cu. ft. ³ (1.1061 cu. m)	1111-1725-4
330-Gallon IBC Reusable Tote Tank (1249 liters)	3346 lb. (1517.7 kg)	55.8 cu. ft. ³ (1.580 cu. m)	1111-1033-4
Bulk	9.67 lb./gal. (1.16 kg/l)		1111-1001-4

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National Foam operates a continuous programme of product development. The right is therefore reserved to modify any specification without prior notice and National Foam should be contacted to ensure that the current issues of all technical data sheets are used.

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