



# Aer-O-Foam<sup>®</sup> XLX-6<sup>C6</sup>

Fluoroprotein Foam Concentrate  
NFC137



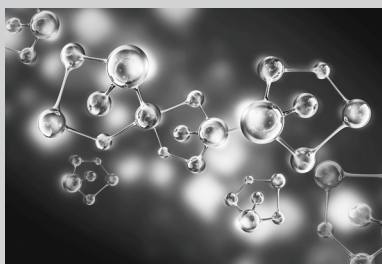
## Assurance

*Firefighting and environmental performance you can rely on*

National Foam prides itself on the open and honest way in which we conduct our business throughout the world. Our foam concentrates are an extension of our ethical beliefs and we pride ourselves in being the responsible foam manufacturer, balancing high performance with minimal environmental impact.

## C6 Technology

Aer-O-Foam XLX-6<sup>C6</sup> 6% is an extremely versatile fluoroprotein foam concentrate which is used at 6% to extinguish fires in hydrocarbon fuels. The C6 Fluorosurfactants have been developed and refined specifically to lower the environmental impact without reducing performance. This new formulation demonstrates National Foam's commitment to superior flexibility, firefighting performance, and environmental responsibility.



- ✔ Suitable for use with fresh or sea water.
- ✔ Compatible with standard proportioning and 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).

Aer-O-Foam XLX-6<sup>C6</sup> 6% is manufactured utilizing a unique process which produces unmatched quality protein hydrolyzate 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 are combined with the protein base to increase fluidity of the foam enabling it to seal around obstructions.

Aer-O-Foam XLX-6<sup>C6</sup> 6% is suitable for use in combating fires in storage tanks, loading racks, docks, ships, process areas, and warehouses.

## Typical Physical Properties

Appearance..... Dark Brown Color  
Specific Gravity at 68°F(20°C)..... 1.12

pH.....7.4  
Viscosity at 68°F(20°C).....8.0 cST  
Freezing Point.....8°F(-13°C)  
Min Usable Temperature.....35°F(2°C)  
Max Usable Temperature.....120°F(49°C)

## Technical Information

Aer-O-Foam XLX-6<sup>C6</sup> 6% is a protein based foam formulated with fluorochemical surfactant, making it highly tolerant to hydrocarbon fuel contamination. Aer-O-Foam XLX-6<sup>C6</sup> 6% is suitable for both top-side and subsurface application to hydrocarbon flammable liquid storage tank fires. Aer-O-Foam XLX-6<sup>C6</sup> 6% 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-6<sup>C6</sup> 6% foam concentrate make 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-6<sup>C6</sup> 6% 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.

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## Fluoroprotein Foam Concentrate

### Storage and Handling

Aer-O-Foam XLX-6<sup>C6</sup> 6% concentrate is best stored in its original, unopened, factory supplied shipping container. Aer-O-Foam XLX-6<sup>C6</sup> 6% 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-6<sup>C6</sup> 6%. Refer to National Foam Technical bulletin NFTB100 for further information.

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 35°F to 120°F (2°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 XLX-6<sup>C6</sup> 6% foam concentrate is freeze/thaw stable. Should the product freeze during shipment or storage, no performance loss is expected upon thawing.

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.

### 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. Properly stored National Foam fluoroprotein foam concentrates have been tested and shown no significant loss of firefighting performance, even after ten years.

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. Refer to National Foam product data sheet NFC960 for further details on Technical Service program.

### Environmental and Toxicological Information

National Foam Concentrates do not contain PFOS in accordance with USEPA Stewardship Program 2010/2015.

Prevent foam concentrate and foam solution from entering ground water, surface water, or storm drains. Discharge and disposal of Aer-O-Foam XLX-6<sup>C6</sup> 6% concentrate or foam solution should be made in accordance with federal, state, and local regulations. Refer to National Foam Technical Bulletin NFTB110 for further information.

Aer-O-Foam XLX-6<sup>C6</sup> 6% has not been tested for acute toxicity, primary skin or primary eye irritation. Repeated skin contact will remove the oils from the skin and cause dryness. Aer-O-Foam XLX-6<sup>C6</sup> 6% is a primary eye irritant and contact with the eyes should be avoided. Wear protective equipment and wash with water if exposed. For further details, see the Safety Data Sheet NMS137.

### Ordering Information

Container	Shipping Weight	Shipping Dimensions	Part Number
5-Gallon Pails (19 liters)	49 lb. (22.2 kg)	1.13 cu. ft. <sup>3</sup> (0.032 cu. m)	1111-5340-4
55-Gallon Drums (208 liters)	536 lb. (243.1 kg)	11.51 cu. ft. <sup>3</sup> (0.326 cu. m)	1111-5481-4
Bulk	9.34 lb/gal (1.12 kg/l)		

### National Foam

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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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