



Aer-O-Lite™ 3% Cold Foam^{C6}

Aqueous Film-Forming Foam
Freeze Protected
NFC310

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 foams 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

Environmentally Responsible Aer-O-Lite™ 3% Cold Foam^{C6} is a freeze protected aqueous film forming foam (AFFF) which is used at 3% concentration 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. It is suitable for use with most types of proportioning and discharge equipment.



- ✔ Environmentally responsible foam concentrate.
- ✔ Excellent fluidity provides rapid "knockdown".
- ✔ Suitable for use with fresh or sea water.
- ✔ Suitable for use with foam compatible dry powder extinguishing agents.
- ✔ Underwriters Laboratories, Inc.
- ✔ Underwriters Laboratories of Canada (ULC).

AFFF foam concentrates are designed for rapid fire knockdown by producing a thin aqueous film which spreads across the surface of the fuel, separating the fuel from oxygen. This is accomplished by allowing the foam solution to quickly drain from the foam bubble which in turn, affects long term sealability and burnback resistance.

Aer-O-Lite™ 3% Cold Foam^{C6} is used at 3% concentration in fire suppression systems and manually to fight fires involving 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 alcohols, ketones, esters, and ethers. Typical installations include foam water sprinkler systems, aircraft hangars, loading racks, process areas, etc. Aer-O-Lite™ 3% Cold Foam^{C6} is an excellent agent for use in aircraft rescue and fire fighting (ARFF) or other manual fire fighting applications where polar

solvent fuels are not encountered. It is also useful as a wetting agent in combating class A fires.

In general, AFFF foam concentrates may be used with non aspirating nozzles and sprinklers, however, for best foam expansion and 25% drainage time all foam concentrates should be used with aspirating nozzles and foam making discharge devices.

Typical Physical Properties

Appearance.....Straw Yellow Color
Specific Gravity at 77°F(25°C).....1.06
pH.....7.7
Viscosity at 77°F(25°C).....7.0 cST
Min Usable Temperature.....-20°F(-29°C)
Max Usable Temperature.....120°F(49°C)

Storage and Handling

Aer-O-Lite™ 3% Cold Foam^{C6} 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 stainless steel (Type 304L or 316), high density cross linked polyethylene, or reinforced fiberglass polyester (isophthalic polyester resin) with a vinyl ester resin internal layer coating (50-100 mils). Refer to National Foam Technical Bulletin NFB100 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

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a pressure vacuum vent to prevent free exchange of air. The recommended storage environment is with the UL listed temperature range of -20°F to 120°F (-29°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 Technical Bulletin NFTB100 or National Foam product data sheet NFC950 for further information.

Aer-O-Lite™ 3% Cold Foam^{CF} 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-Lite™ 3% Cold Foam^{CF} 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. Properly stored National Foam AFFF foam concentrates have been tested and shown no significant loss of fire fighting performance, even after 15 years.

Annual testing of all fire fighting 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

Aer-O-Lite™ 3% Cold Foam^{CF} contains no ingredients reportable under the Superfund Amendments and Reauthorization Act (SARA) Title III, Section 313 of 40 CFR-372 or the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as of July 1, 1995.

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-Lite™ 3% Cold Foam^{CF} 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-Lite™ 3% Cold Foam^{CF} has not been tested for acute oral toxicity, primary eye or primary skin irritation. Repeated skin contact will remove oils from the skin and cause dryness. Aer-O-Lite™ 3% Cold Foam^{CF} is a primary eye irritant, and contact with the eyes should be avoided. Users are advised to wear protective equipment. If Aer-O-Lite™ 3% Cold Foam^{CF} enters the eyes, flush them well with water and seek immediate medical attention. For further details, see the Aer-O-Lite™ 3% Cold Foam^{CF} Safety Data Sheet NMS310.

Ordering Information

Container	Shipping Weight	Shipping Dimensions	Part Number
5-Gallon Pails (19 liters)	46.7 lb. (21.2 kg)	1.13 cu. ft. ³ (0.032 cu. m)	2133-6340-4
55-Gallon Drums (208 liters)	508 lb. (230.4 kg)	11.51 cu. ft. ³ (0.326 cu. m)	2133-6481-4
275-Gallon IBC Reusable Tote Tank (1041 liters)	2566 lb. (1163.9 kg)	51.11 cu. ft. ³ (1.1061 cu. m)	2133-6725-4
330-Gallon IBC Reusable Tote Tank (1249 liters)	3072 lb. (1393.5 kg)	55.8 cu. ft. ³ (1.580 cu. m)	2133-6033-4
Bulk	8.84 lb./gal. (1.06 kg/l)		2133-6001-4

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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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