



NF Training Foam

AFFF Simulation Foam
NFC710



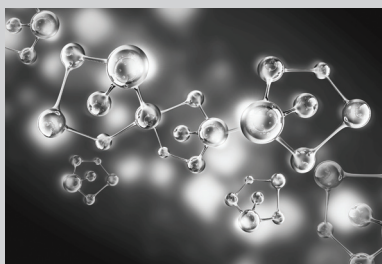
Assurance

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.

Fluorine Free Formulations

National Foam's Training Foam is designed to provide fire departments and training institutions with an inexpensive training alternative. This unique formulation is free from fluorosurfactants and is a blend of high activity foaming agents. When minimizing environmental persistence is paramount, National Foam's commitment and long track record of formulating specialty foam concentrates for minimal environmental impact and maximum performance offers Assurance.



- ✔ Environmentally responsible foam concentrate
- ✔ Simulates AFFF in training situations
- ✔ Suitable for foam evolution training scenarios as well as proportioning equipment testing
- ✔ Suitable for Class A or Class B proportioning systems

The concentrate has proportioning characteristics similar to AFFF foam concentrates and provides an expanded foam blanket when used with air aspirating application devices.

Training Foam is readily biodegradable. It is designed for use at a 3% or 6% proportioning rate through all types of proportioning equipment. **National Foam's Training Foam IS NOT designed to be used in the extinguishment of fire.**

Training Foam uses the same synthetic foaming agents found in National Foam's AFFF concentrates. Training foam is a non-toxic concentrate that does not contain any fluorochemicals, polymers or solvents.

Applications

Training Foam may be used through Class A or B foam proportioning systems. It has been designed to provide expansion characteristics similar to AFFF firefighting foams, but does not contain

chemical components for firefighting performance. It is useful in testing foam evolution scenarios and proportioning equipment operation.

Typical Physical Properties

Appearance.....	Clear Liquid
Specific Gravity at 77°F(25°C).....	1.01
pH.....	8.2
Viscosity @77°F(25°C).....	1.03 cST
Freezing Point.....	23°F(-5°C)
Min Usable Temperature	35°F(2°C)
Max Usable Temperature.....	120°F(49°C)

Storage and Handling

Training Foam should be 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).

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 temperature range for Training Foam concentrate is 35°F (2°C) to 120°F (49°C). When product is stored in atmospheric storage tanks, contents

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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.

Training Foam should not be mixed, stored, or used with any other type of foam concentrate. Proportioning and application equipment should be flushed clean after use and before using different foam concentrate types.

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. Under optimum storage conditions, the storage life of Training Foam is expected to be similar to National Foam's AFFF concentrates.

Environmental and Toxicological Information

National Foam's Training Foam is formulated using surfactants derived from renewable resources such as corn and coconut or palm oils. The surfactants found in Training Foam can also be found in a wide variety of household, institutional, and industrial cleaning products. They are commonly employed in such products as fine-fabric detergents, dish washing liquids, laundry detergents, and carpet cleaners. Although the components were carefully selected for their non-toxic properties, as with the above mentioned products, prolonged exposure will dry the skin. As with most soaps or detergents, contact to the eyes should be avoided.

Training Foam concentrate or foam solution should not be discharged directly into waterways or biological sewage treatment systems, without prior approval. Due to their foaming capacity, Training Foam concentrate and solution may require further dilution before entering the waste water treatment

plant. Please consult the facility operator prior to disposal. Disposal or discharge of Training Foam 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.

The Biological Oxygen Demand (BOD) and Chemical Oxygen Demand (COD) of Training Foam are as follows:

BOD₂₀ 51,000 mg/kg
 COD 60,000 mg/kg

Training Foam 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. Training Foam is a primary eye irritant, and contact with the eyes should be avoided. Users are advised to wear protective equipment. If Training Foam enters the eyes, flush them well with water and seek immediate medical attention. For further details, see the Training Foam Safety Data Sheet NMS710.

Ordering Information

Container	Shipping Weight	Shipping Dimensions	Part Number
5-Gallon Pails (19 liters)	45 lb. (20.4 kg)	1.13 cu. ft. ³ (0.032 cu. m)	1160-4340-6
55-Gallon Drums (208 liters)	486 lb. (220.4 kg)	11.1 cu. ft. ³ (0.314 cu. m)	1160-4481-6
275-Gallon IBC Reusable Tote Tank (1041 liters)	2456 lb. (1114.0 kg)	48.2 cu. ft. ³ (1.365 cu. m)	1160-4725-6
330-Gallon IBC Reusable Tote Tank (1249 liters)	2940 lb. (1333.6 kg)	55.8 cu. ft. ³ (1.580 cu. m)	1160-4033-6
Bulk	8.44 lb./gal. (1.01 kg/l)		1160-4001-6

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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