



Centurion™ C6 3%

Alcohol Resistant Aqueous Film-Forming Foam

NFC440



- ✔ Suitable for use with fresh or sea water.
- ✔ Used at 3% concentration on hydrocarbons and polar solvent (water miscible) fires
- ✔ Suitable for use with foam compatible dry powder extinguishing agents.
- ✔ Underwriters Laboratories, Inc.
- ✔ Underwriters Laboratories of Canada (ULC).
- ✔ Formulated using 'C6' fluorosurfactant technology

Centurion^{C6} 3% is an AR-AFFF concentrate with a special biosynthesized polymer. This polymer is designed to fulfill two functions. The first is to form a protective membrane between the fuel and the foam as it contacts the water-miscible fuel, making extinguishment possible. The second function is to make the foam more stable and heat-resistant, resulting in better burnback resistance and sealability compared to conventional AFFF's. The concentrate formulation is recognized by United States Patents 4,999,119 and 5,207,932.

Applications

Centurion^{C6} 3% is used in fire suppression systems and manual applications to fight a broad range of Class B fires. Its versatility simplifies the extinguishment of unknown Class B fuels. Typical applications include storage tanks, loading racks, docks, process areas, warehouses, spills, etc.

Typical Physical Properties

Appearance...Straw Yellow Viscous Liquid
 Specific Gravity at 77°F(25°C).....1.02
 pH.....8.0
 Viscosity.....2400 cP*
 Min Usable Temperature.....35°F(2°C)
 Max Usable Temperature.....120°F(49°C)
 Freeze Point.....28°F (-2°C)

*Brookfield #4 Spindle @ 60 rpm. Viscosity measured under different shear conditions will vary because of pseudoplastic rheology of this non-Newtonian product.

Storage and Handling

Centurion^{C6} 3% is ideally stored in its original shipping container or in tanks or other containers that 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 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.

Centurion^{C6} 3% is freeze/thaw stable. Should the product freeze during shipment or storage, no performance loss is expected upon thawing.

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It is recommended that Centurion^{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 its 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, or contact your National Foam representative.

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 Centurion^{C6} 3% concentrate or foam solution should be made in accordance with federal, state, and local regulations. Centurion^{C6} 3% 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. Centurion^{C6} 3% is a primary eye irritant, and contact with the eyes should be avoided. Users are advised to wear protective equipment. If Centurion^{C6} 3% enters the eyes, flush them well with water and seek immediate medical attention. For further details, see the Centurion^{C6} 3% Safety Data Sheet NMS440.

Ordering Information

Container	Shipping Weight	Shipping Dimensions	Part Number
5-Gallon Pails (19 liters)	46 lb. (20.8 kg)	1.13 cu. ft. ³ (0.032 cu. m)	2130-2340-4
55-Gallon Drums (208 liters)	495 lb. (224.5 kg)	11.1 cu. ft. ³ (0.314 cu. m)	2130-2481-4
275-Gallon IBC Reusable Tote Tank (1041 liters)	2497 lb. (1132.6 kg)	48.2 cu. ft. ³ (1.365 cu. m)	2130-2725-4
330-Gallon IBC Reusable Tote Tank (1249 liters)	2990 lb. (1356.3 kg)	55.8 cu. ft. ³ (1.580 cu. m)	2130-2330-4
Bulk	8.59 lb./gal. (1.03 kg/l)		2130-2001-4

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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