Universal® PlusC6

3%-6%
Alcohol Resistant Aqueous Film-Forming Foam
NFC410

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 Universal PlusC6 3%/6% alcohol-resistant aqueous film forming foam (AR-AFFF) is used at 3% concentration to extinguish hydrocarbon fires, and 6% for polar-solvent (water miscible) fires. 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.

Typical Physical Properties

Appearance...Straw Yellow Visous Liquid
Specific Gravity at 77°F(25°C)............1.02
pH.....................................................8.2
Viscosity...........................................2,700 cP*
Freezing Point............................29°F(-2°C)
Min Usable Temperature..............35°F(2°C)
Max Usable Temperature...........120°F(49°C)

*Brookfield #3 Spindle @ 30 rpm. Viscosity measured under different shear conditions will vary because of pseudoplastic rheology of this non-Newtonian product.

Storage and Handling

Universal PlusC6 3%/6% 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 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 should be within the UL listed temperature range of 35°F to 120°F (2°C to 49°C). When product is stored in atmospheric storage include storage tanks, loading racks, docks, process areas, warehouses, spills, etc.
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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.

Environmental and Toxicological Information


Prevent foam concentrate and foam solution from entering ground water, surface water, or storm drains. Discharge and disposal of Universal PlusC6® 3%-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.

Universal PlusC6® 3%-6% has not been tested for acute oral toxicity, primary skin irritation or primary eye irritation. Repeated skin contact will remove oils from the skin and cause dryness. Universal PlusC6® 3%-6% is a primary eye irritant, and contact with the eyes should be avoided. Users are advised to wear protective equipment. If Universal PlusC6® 3%-6% enters the eyes, flush them well with water and seek immediate medical attention. For further details, see the Universal PlusC6® Safety Data Sheet NMS410.

Underwriters Laboratories-Listed Type II Application Rates for Universal PlusC6® @ 6%

Fuel Group   | UL-Listed Type II Application Rate (gpm/ft² (lpm/m²))
-------------|----------------------------------------
Alcohols     | 0.06 (2.5)                             
Ethanol      | 0.07 (3)                               
Methanol     | 0.09 (4)                               
Ketones      | 0.10 (6)                               
Methyl Ethyl Ketone | 0.10 (6)                 
MTBE         | 0.14 (6)                               
Esters       | 0.10 (4)                               

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

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 AR-AFFF foam concentrates have been tested and shown no significant loss of firefighting performance, even after 25 years.

Ordering Information

<table>
<thead>
<tr>
<th>Container</th>
<th>Shipping Weight</th>
<th>Shipping Dimensions</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-Gallon Pails (19 liters)</td>
<td>45 lb. (20.4 kg)</td>
<td>1.13 cu. ft.³ (0.032 cu. m)</td>
<td>2130-5340-4</td>
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<td>55-Gallon Drums (208 liters)</td>
<td>490 lb. (222.3 kg)</td>
<td>11.51 cu. ft.³ (0.326 cu. m)</td>
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<td>275-Gallon IBC Reusable Tote Tank (1041 liters)</td>
<td>2475 lb. (1122.7 kg)</td>
<td>51.11 cu. ft.³ (1.1061 cu. m)</td>
<td>2130-5725-4</td>
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<td>330-Gallon IBC Reusable Tote Tank (1249 liters)</td>
<td>2963 lb. (1334.0 kg)</td>
<td>55.8 cu. ft.³ (1.580 cu. m)</td>
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<td>Bulk</td>
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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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07/18 NFC410 (Rev L)