AFFF
FC-783

Description
3M Brand AFFF is a synthetic firefighting foam concentrate designed for use on non-polar, hydrocarbon hazards. When proportioned with water and applied with conventional foam or water/fog equipment, 3M Brand AFFF provides excellent control and extinguishment of Class B fires by spreading a vapor-sealing film over the liquid fuel. This vapor seal inhibits reflash even when the foam blanket is ruptured and also allows the product to be used to secure non-ignited spills. 3M Brand AFFF provides excellent penetrating and wetting qualities when used on Class A fires. This is important when extinguishing deep-seated fires in wood, paper, rubber tires and other ordinary combustibles.

Typical Properties (Not for specification purposes)
Nominal use concentration: 3%
Specific gravity @ 77°F (25°C): 1.022
Density: 8.52 lbs/gal.
Viscosity @ 77°F (25°C): 3.5 centistokes
40°F (4.4°C): 6.8 centistokes
Minimum use temperature: 35°F (1.7°C)
Storage temperature: 35° - 120°F (1.7° - 49°C)
Freeze point: 25°F (-4°C)
pH @ 77°F (25°C): 8
Appearance: Amber liquid

Applications
3M Brand AFFF can be used with conventional foam equipment with fresh, sea or brackish water. Self-ectuating foam nozzles and foam nozzles with in-line eductors are among the most common types of hardware for application.

In addition to its use in aspirating foam equipment, 3M Brand AFFF can be dispensed effectively through non-aspirating equipment including fog nozzles, water spray devices and standard sprinklers. 3M Brand AFFF is listed by UL for use with handline nozzles, foam chambers for top side tank protection and standard sprinkler heads.

3M Brand AFFF is effective in subsurface injection systems for non-water soluble hydrocarbons. Subsurface injection is safe and reliable for fixed protection of storage tanks.

3M Brand AFFF may be applied to fires simultaneously with dry chemical firefighting agents because the two are compatible.

Features
Effective: Rapid extinguishment reduces the chances of dangerous incidents and reduces the risk to property and equipment. 3M Brand AFFF also prevents reflash and burnback, which are major causes of injuries. The securing action of 3M Brand AFFF minimizes the fire hazard during cleanup of flammable liquid spills.
Reliable: 3M Brand AFFF can be stored for virtually an indefinite period of time in approved equipment and systems. NFPA 11 recommends annual inspection of all foam systems.
Economical: 3M Brand AFFF offers faster extinguishment than protein based foams, so less agent is required in training and actual fire emergencies. Its wide range of applications reduces or eliminates the need to inventory other special type agents.

*Aqueous Film Forming Foam

3M Industrial Chemical Products Division
3M Center Bldg. 223-6S-04
St. Paul, MN 55144-1000
Environmental/Toxicological Properties
Standardized tests are conducted as an ongoing program to evaluate and assess the impact of 3M Brand AFFF on humans and the natural environment. Based on test results, 3M Brand AFFF is biodegradable, low in toxicity and can be treated in biological treatment systems. In its concentrate form, 3M Brand AFFF was found to be a slight eye and skin irritant, but as a foam solution, there are no noticeable negative effects. Tests and actual use situations have shown that animal and aquatic life are not adversely affected.

Storage
3M Brand AFFF may be stored in its shipping container without change in its original physical or chemical characteristics. It does not show significant sedimentation or precipitation in storage or after temperature cycling. Freezing and thawing have no effect on performance and the concentrate proportions satisfactorily in ordinary equipment at temperatures above 32°F. Freeze-thaw cycling may cause slight stratification which may be overcome with moderate agitation. Premix solutions in fresh water may be stored long term for ready use at temperatures above freezing.

Packaging
3M Brand AFFF is available in 5 gallon pails or 55 gallon drums.

Representative Locations

<table>
<thead>
<tr>
<th>Location</th>
<th>Address</th>
<th>Phone Numbers</th>
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<tbody>
<tr>
<td>Anchorage</td>
<td>11151 Calaska Circle&lt;br&gt;Anchorage, AK 99515&lt;br&gt;907/522-5200</td>
<td></td>
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<tr>
<td>Atlanta</td>
<td>2860 Bankers Industrial Drive&lt;br&gt;Atlanta, GA 30360&lt;br&gt;404/447-7096&lt;br&gt;404/447-7043</td>
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<tr>
<td>Boston</td>
<td>155 Fourth Avenue&lt;br&gt;Needham Heights, MA 02194&lt;br&gt;617/455-7254</td>
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<tr>
<td>Chicago</td>
<td>908 N. Elm Street&lt;br&gt;Hinsdale, IL 60521&lt;br&gt;312/496-6604&lt;br&gt;312/920-1000</td>
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<tr>
<td>Dallas</td>
<td>2121 Santa Anna Avenue&lt;br&gt;Dallas, TX 75228&lt;br&gt;214/324-8172</td>
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<tr>
<td>Honolulu</td>
<td>4443 Malaa Street&lt;br&gt;Honolulu, HI 96818&lt;br&gt;808/422-2721</td>
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<tr>
<td>London, Ontario</td>
<td>P.O. Box 5757, Terminal A&lt;br&gt;London, Ontario N6A4T1&lt;br&gt;519/451-2500</td>
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<tr>
<td>Los Angeles</td>
<td>6023 So. Garfield Avenue&lt;br&gt;Los Angeles, CA 90040&lt;br&gt;213/726-6361</td>
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<tr>
<td>St. Paul</td>
<td>223-6S-04, 3M Center&lt;br&gt;St. Paul, MN 55144&lt;br&gt;612/733-1710 (Ordering Product)&lt;br&gt;612/736-6055&lt;br&gt;612/736-1883</td>
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<tr>
<td>San Francisco</td>
<td>1241 E. Hillsdale Blvd.&lt;br&gt;Foster City, CA 94404&lt;br&gt;415/571-6700</td>
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