

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-educating 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
98-0211-4665-3(99.2)R2

Litho in U.S.A.

3M Industrial Chemical Products Division

3M Center Bldg. 223-6S-04
St. Paul, MN 55144-1000

Exhibit
1359

State of Minnesota v. 3M Co.,
Court File No. 27-CV-10-28862

3M_MN02369894

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

Anchorage

11151 Calaska Circle
Anchorage, AK 99515
907/522-5200

Atlanta

2860 Bankers Industrial Drive
Atlanta, GA 30360
404/447-7096
404/447-7043

Boston

155 Fourth Avenue
Needham Heights, MA 02194
617/455-7254

Chicago

908 N. Elm Street
Hinsdale, IL 60521
312/496-6604
312/920-1000

Dallas

2121 Santa Anna Avenue
Dallas, TX 75228
214/324-8172

Honolulu

4443 Malaai Street
Honolulu, HI 96818
808/422-2721

London, Ontario

P.O. Box 5757, Terminal A
London, Ontario N6A4T1
519/451-2500

Los Angeles

6023 So. Garfield Avenue
Los Angeles, CA 90040
213/726-6361

St. Paul

223-6S-04, 3M Center
St. Paul, MN 55144
612/733-1710 (Ordering Product)
612/736-6055
612/733-1683

San Francisco

1241 E. Hillsdale Blvd.
Foster City, CA 94404
415/571-6700

24 Hour Emergency Service

612/733-1110

Important Notice to Purchaser: All statements, technical information and recommendations contained herein are based on tests conducted with 3M approved equipment, and are believed to be reliable. But the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness for purpose:

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, DIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

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