



AFFF



1% 3% 6%

PRODUCT DESCRIPTION

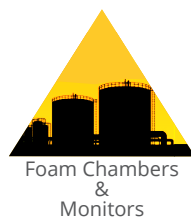
FireChem AFFF is superior quality aqueous film-forming foam which can be used at the specified concentration to extinguish fires of non – polar hydrocarbon fuels. This extinguishing agent is suitable for use with most types of proportioning and discharge equipment. FireChem AFFF foam concentrates are designed for rapid fire knockdown by producing a thin aqueous film which helps to prevent the release of fuel vapours. The foam blanket from which the film forming liquid drains separates oxygen from the fuel surface, extinguishes the fire and prevents re-ignition.

FireChem AFFF provides excellent penetrating and wetting qualities when used on Class A fires also. The water content of the foam provides a cooling effect. The aqueous film is produced by the fluorocarbon surfactant reducing the surface tension of the foam solution to a point where the solution can be supported by the surface tension of the fuel. This is important when extinguishing deep-seated fires in wood, paper, rubber and other ordinary combustibles.

FEATURES

- Formulated for use with wide range of discharge devices and proportioning system.
- Suitable for use with both aspirating foam and standard water fog nozzles.
- If inadvertently frozen, thawing will render product completely serviceable again.
- Suitable for use with fiber glass, polyethylene or stainless steel.
- Suitable for use with either fresh or salt water.
- Suitable for use with deluge or closed head foam water sprinkler systems.
- Suitable for use with siliconised dry chemical extinguishing agents.
- U.L. recommended application rate on hydrocarbon type fuels is 0.10gpm/ft².
- Suitable for use at temperatures up to -29 ° C.

HARDWARE COMPATABILITY



APPROVALS



SPECIFICATIONS

PRODUCT	AFFF 1%	AFFF 3%	AFFF 6%	AFFF FREEZE PROTECT
USE CONCENTRATION	1%	3%	6%	1% / 3% / 6%
SPECIFIC GRAVITY	1.03 ± 0.02	1.01 ± 0.02	1.01 ± 0.02	1.06 ± 0.03
pH	7.5 ± .5	7.5 ± .5	7.5 ± .5	7.5 ± 0.5
VISCOSITY @ 20°C	< 10 CST	< 10 CST	< 10 CST	< 10 CST
SUSPENDED SEDIMENT (V/V)	< 0.1 %	< 0.1 %	< 0.1 %	< 0.1 %
FREEZING POINT	-2°C	-2°C	-2°C	-31°C
POUR POINT	-1°C	-1°C	-1°C	-30°C
STORAGE TEMPERATURE	+1.7°C MINIMUM +50°C MAXIMUM	+1.7°C MINIMUM +50°C MAXIMUM	+1.7°C MINIMUM +50°C MAXIMUM	-29°C MINIMUM +50°C MAXIMUM
FOAM EXPANSION	LOW > 7	LOW > 7	LOW > 7	LOW > 7
25% DRAINAGE TIME	3 MINUTES	3 MINUTES	3 MINUTES	4 MINUTES

AREAS OF APPLICATION

FireChem AFFF will provide quality protection for a wide range of hazardous areas such as:

- Refinery
- Hydrocarbon storage tanks
- Airports
- Ports
- Process areas
- Solvent extraction
- Polymer manufacturing
- Domestic fire
- Industrial fire
- Mobile equipment

STORAGE AND HANDLING

FireChem AFFF may be stored in its shipping container without change in its original physical or chemical characteristics. Shelf life is expected to be 20 years or more when stored at recommended temperatures and in original containers. 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 1.7°C. Synthetic foam concentrates should only be stored in stainless steel (Type 304L or 316), reinforced fiberglass polyester with a vinyl ester resin internal layer coating or plastic containers.

PACKAGING



ENVIRONMENTAL IMPACT

FireChem AFFF is biodegradable, low in toxicity and can be treated in effluent treatment plants.

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