

A FOAM F AFFF %1-3-6 Foam Concentrate

Description

A FOAM-%1-3-6 AFFF (Aqueous Film-Forming Foam) Concentrate combines fluoro- and hydrocarbon-surfactant technologies to provide superior fire and vapor suppression for Class B hydrocarbon fuel fires. This AFFF foam concentrate is intended for fire fighting applications at 1-3-6% solution in fresh, salt, or hard water.

A FOAM-%1-3-6 AFFF foam solution utilizes three suppression mechanisms intended for rapid fire knockdown and superior burnback resistance:

The foam blanket blocks oxygen supply to the fuel.

Liquid drains from the foam blanket and forms an aqueous film that suppresses fuel vapor and seals the fuel surface.

The water content of the foam solution produces a cooling effect for additional fire suppression.

Typical Physicochemical Properties

Appearance	Pale yellow liquid
pH(20 oC)	7.2 ± 1
Viscosity(20 oC)	Min. 3.0 cP
Density(20 oC)	1.02 ± 0.02 gr/cm ³
Storage Temperature	Min-15° C ,Max+60 °C
Surface Tension	19 ± 1 mN/m`dir.
Sediment(20 oC)	< %0,0
Recommended usage concentration	%1-3-6
Suitable for use with fresh or seawater.	
Burn-Back Resistance Level	C
Fire Fight Performance Class	III
Freeze Point	-15°C

Application

A FOAM-%1-3-6 AFFF is used in high risk situations where hydrocarbons (such as diesel fuel, gasoline, crude oil) are stored, processed or transported.

A FOAM-%1-3-6 AFFF is designed and recommended for fast fire knockdown to save human lives, in addition to preventing catastrophic fire development; in particular when used in firefighting vehicles in the airports and fixed fire systems in heliports.

A FOAM-%1-3-6 AFFF can also be used as a wetting agent in combating A FOAM-1F Class A materials such as paper, wood, tires. It is most suitable for simultaneous use with compatible powders in twin-agents or extinguishers.

A FOAM-%1-3-6 AFFF is principally recommended for protection against fire in:

- Airports and heliports
- Aircraft hangars
- Industrial chemical and petroleum processing facilities
- Truck/rail loading and unloading facilities
- Flammable liquid containment areas
- Hydrocarbon storage tanks and power stations
- Mobile equipment
- Sprinkler Systems
- Loading Systems
- Marine Terminals and Vessels



Approvals, Listings, and Standards

A FOAM-%1-3-6 AFFF is in conformity with all national and international standards, EN 1568:2018 Part 1, Part 2, Part 3 directives Afmer Chemicals CO. operates a quality management system which complies with requirements of ISO 9001:2015.

Foaming Properties

A FOAM-%1-3-6 AFFF Concentrate may be effectively applied using most conventional foam discharge equipment at 1-3-6% dilution with fresh, salt, or hard water. A FOAM-%1-3-6 AFFF Concentrate requires low energy to foam and the foam solution may be applied with aspirating and non-aspirating discharge devices. Non-aspirating devices, such as handline water fog/stream nozzles or standard sprinkler heads, typically produce expansion ratios from 2:1 to 4:1. Aspirating low-expansion discharge devices typically produce expansion ratios from 3.5:1 to 10:1, depending on the type of device and the flow rate. Medium-expansion discharge devices typically produce expansion ratios from 20:1 to 60:1.

Performance

A FOAM-%1-3-6 AFFF is produced to rigorous quality control standards. After each production, the performance tests are performed to product in Afmer Chemicals CO. Performance Laboratories.

Compatibility

A FOAM-%1-3-6 AFFF is suitable for use in combination with :

- Soft or hard, fresh or seawater.
- Dry powder extinguishing agents either separately or as twin agents systems.
- Expanded AFFF foams for application to a fire in sequence or simultaneously.

A FOAM-%1-3-6 AFFF properties do not change in case of frost. It recovers its initial properties as soon as it is defrosted.

Storage

A FOAM-%1-3-6 AFFF is exceptionally stable in long-term storage. Shelf life of at 10 years can be expected if it is stored properly in original container. A FOAM-%1-3-6 AFFF is suitable for storing steel tank body.

Typical Packing Specification

Capacity	Plastic Drum		Plastic Barrel	IBC Bulk
	20 litres	30 litres	220 litres	1000 litres
Empty Weight(kg)	1.0	1.2	9.0	70
Filled Weight(kg)	21	32	230	1075
Dimensions(mm)	305 x 295 x 333	380 x 300 x 360	585 D x 945 H	1200 L x 1000 W x 1165 H

Palletizing of pails and drums is available upon request.