

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

Description

A FOAM-1-3-6AR (Alcohol Resistant Aqueous Film-Forming Foam) concentrates are high-performance, firefighting AR-AFFF concentrates formulated with hydrocarbon and fluorosurfactants, fluoropolymers and water-soluble polysaccharide polymers. When A FOAM-1-3-6AR is applied to a water-soluble fuel, a polymeric membrane is formed between the foam and the fuel.

When the foam is applied to a hydrocarbon fuel, a film is created at the fuel/air interface, similar to AFFF. Also like AFFF, AR-AFFF inhibits vapor release and provides a foam blanket cooling effect in the suppression of both types of Class B fires.

Typical Physicochemical Properties

Appearance	Pale Yellow liquid
pH(20 oC)	7.2 ± 1
Viscosity(20 oC)	Min 300 cP
Density(20 oC)	1.03 ± 0.01 gr/cm ³
Storage Temperature	Min-15° C ,Max+60 ° C
Surface Tension	19 ± 2 mN/m'dir.
Sediment(20 oC)	< % 0,05
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-1-3-6AR concentrates produce foams that are effective in suppressing both types of Class B fuel fires – polar solvent (water soluble) fuels such as methanol, ethanol and acetone, as well as hydrocarbon fuels, such as gasoline, diesel and petroleum.

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

- Fuel or chemical storage tanks
- Industrial chemical and petroleum processing facilities
- Truck/rail loading and unloading facilities
- Flammable liquid containment areas
- Docks and on-board marine systems
- Mobile equipment



Approvals, Listings, and Standards

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

Foaming Properties

A FOAM-1-3-6AR Concentrate may be effectively applied using most conventional foam discharge equipment at 1-3-6% dilution with fresh, salt, or hard water. For optimum performance, water hardness should not exceed 500 ppm expressed as calcium and magnesium.

A FOAM-1-3-6AR Concentrate requires low energy to foam and the foam solution may be applied with aspirating and non-aspirating discharge devices.

Aspirating discharge devices typically produce expansion ratios from 3.5:1 to 10:1 depending on the type of device and the flow rate. Non-aspirating devices, such as handline water fog/stream nozzles or standard sprinkler heads, typically produce expansion ratios from 2:1 to 4:1. Medium-expansion discharge devices typically produce expansion ratios from 20:1 to 60:1.

Performance

A FOAM-1-3-6AR 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-1-3-6AR 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-AR foams for application to a fire in sequence or simultaneously.

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

Storage

A FOAM-1-3-6AR 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-1-3-6AR is suitable for storing steel tankbody.

Typical Packing Specification

Capacity	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.