

FireAde[®] AR AFFF

3% X 3%



FireAde[®] AR-AFFF 3 % × 3 %

Liquid alcohol-resistant aqueous film-forming foam concentrate for Class B fuels: hydrocarbons and polar solvents.

Fire Service Plus, Inc.'s Safety Data Sheet identifies a C6 fluorinated surfactant in the proprietary foam mixture.

Manufacturer: Fire Service Plus, Inc. • Peachtree City, Georgia, United States.

UL 162 Certification

Certificate of Compliance UL-US-2325931-2, report reference EX6296-20021119, issued on April 25, 2025 to FIRE SERVICES PLUS INC. Identifies the FIREADE AR-AFFF model under UL 162, 8th Edition.

- SUPPORTING DOCUMENTATION
- 3 % proportioning for hydrocarbons and 3 % for polar solvents (manufacturer's technical data sheet).
- C6 fluorinated surfactant identified in the Safety Data Sheet, Section 3 (June 15, 2023).
- UL 162 Certificate of Compliance for model FIREADE AR-AFFF (April 25, 2025).
- Declared shelf life > 10 years, in its original sealed container under suitable conditions.



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Application

AR-AFFF foam intended to fight Class B fires involving hydrocarbons and polar solvents. The Safety Data Sheet describes its use as a fire-fighting foam concentrate.

Application Rates

Hydrocarbons (non-polar): 0.10 gal/min/ft², at 3 %, for 10–20 min.

Polar solvents: 0.17 gal/min/ft², at 3 %, for 20–30 min.

Application rates and times depend on system design and risk conditions.

Intended Uses

Applications documented in the commercial technical data sheet: process areas, tanks, storage areas, docks, loading ramps and spills. Hydraulic compatibility and manufacturer instructions must be checked for each system.

Shelf Life

> 10 years in its original unopened container when properly stored, according to the commercial technical data sheet.

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Compatibility

Compatible with fresh, salt and hard water, as well as simultaneous application with dry chemical powder.

System Cleaning

Before refilling tanks previously used with other foams, wash and rinse according to the manufacturer's instructions. Check concentrate circulation and system operation.

Physical Properties

Appearance: viscous pale amber liquid.
pH: 7.5–8.5
Viscosity: 1,600–2,100 cP, Brookfield, spindle 4, 60 rpm, at 25 °C
Relative density: 1.02 ± 0.02 g/mL, at 25 °C
Storage: –4 to +49 °C
Refractive index: 1.3525 minimum
Sediment ≤ 0.25 % per EN 1568:2008 protocol
Dispersion coefficient: 3 dynes/cm minimum at 3 % dilution
Pour point: 25 °F (–4 °C)
Freezing point: 23 °F (–5 °C)

Packaging Options

Pails, drums (208 L), intermediate bulk containers (1,003 L) and bulk supply.

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PHYSICOCHEMICAL SECTION

Values

PARAMETER	
Appearance	Viscous pale amber liquid
Density	1.02 ± 0.02 g/mL, at 25 °C
pH	7.0–8.5
Refractive index	1.3525 minimum
Viscosity	1,600–2,100 cP, Brookfield, spindle 4, 60 rpm, at 25 °C
Sediment	≤ 0.25 % per EN 1568:2008 protocol
Dispersion coefficient	≥ 3 dynes/cm, at 3 % dilution
Pour point	25 °F (–4 °C)
Freezing point	23 °F (–5 °C)
Rheological behavior	Non-Newtonian, pseudoplastic and thixotropic

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COMPARISON ANNEX — SUPPLY

Product and Delivery Conditions

COMPOSITION

Alcohol-resistant synthetic foam; formulation with C6 short-chain fluorinated surfactants.

APPLICATIONS

3 % concentration for both hydrocarbons and polar fuels; resistance to re-ignition.

SYSTEMS & WATER

Compatible with fresh, salt and hard water, as well as simultaneous application with dry chemical powder; use with foam equipment and systems.

STANDARDS

Reference to NFPA 11 and the requirement for a product approved/listed under UL 162 for the applicable formulation.

STORAGE

Minimum shelf life of 10 years in original containers. Plastic containers holding 1,003 liters and plastic drums holding 208 liters.