

NON-FLUORINATED

AR -SFFF 3% / 3%

SYNTHETIC FLUORINE FREE FOAM

- Superior 3% synthetic fluorine free foam formulated to extinguish both hydrocarbon & Polar fires.
- Formulated without PFAS, PFOA, fluorosurfactants or fluoropolymers .
- Low viscosity to ensure easy induction.
- 100% Biodegradable.
- Formulated avoiding regrettable chemical substitutes such as chlorines.
- Can be used on structural fires, Class A and B fires.



DAFF.CO AR-SFFF 3%/3% is a high-performance, synthetic fluorine-free foam concentrate engineered for effective suppression of both Class A fires and Class B fires involving hydrocarbons and polar solvents.

Formulated to generate a fast-spreading, stable foam blanket, DAFF.CO ensures rapid knockdown, superior burnback resistance, and efficient fire control.

Fluorine-Free: Ideal for use in environments where traditional fluorinated foams are restricted or undesirable

Standards

- UL-162 LISTED



Applications

DAFF.CO is designed for municipal fire risk scenarios involving the storage or transportation of fuels such as oils, gasoline, diesel, aviation kerosene, and alcohols.

It forms a stable, suppressing foam blanket even on unignited spills, with extended drainage times for prolonged protection.

It can be used both with Fresh water and Salt Water

- Hydrocarbon Fires: The application rate remains consistent with legacy foams at **0.06 GPM/sq ft**, per UL 162
- Alcohol-Based Fires: The application rate of **0.18 GPM/sq ft** is required, in accordance with UL certification.

Typical Physical Properties

AppearanceOff White
Specific Gravity at 68°F(20°C)1.01
pH @68°F(20°C).....7.5
Viscosity@ 68°F(20°C)<1500cP*
25% Drainage Time>30 minutes**
Lowest Use Temperature**35°F(1.6°C)**
Max Continuous
Storage Temperature120°F(49°C)

**Brookfield #4 Spindle @ 30 rpm. Viscosity measured under different shear conditions will vary because of pseudoplastic rheology of this non-Newtonian product.*

***Expansion ratio and 25% drainage time are typical values and are affected by accuracy of the foam proportioning device, the type of foam-making device, operating parameters, water quality and type, and atmospheric conditions.*

Equipment

DAFF.CO is designed for use at a 3% concentration (3 parts concentrate to 97 parts water) on both hydrocarbon and polar solvent fires. It can be easily proportioned using standard foam proportioning systems, including portable and fixed in-line venturi proportioners, handline nozzles with pick-up tubes, around-the-pump systems, and on-board Class A/B proportioners.

For optimal performance, DAFF.CO should be applied using air-aspirating discharge devices, such as low-expansion nozzles, monitors, and fixed foam discharge systems

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Compatibility

DAFF.CO AR-SFFF 3%/3% is suitable for use with:

- Potable or fresh water
- Expanded protein-based or synthetic foams, when applied sequentially or simultaneously during firefighting operations

However, DAFF.CO AR-SFFF 3%/3% should not be mixed with other foam concentrates during either short- or long-term storage, as this may cause chemical degradation and compromise its firefighting performance. While mixing is not recommended in storage, expanded foams are compatible for side-by-side application in the field during an active incident.

Environmental

DAFF.CO AR-SFFF 3%/3% contains no intentionally added PFAS and is made without fluorinated surfactants, fluorinated polymers, organo-halogens, or siloxanes. It is 100% biodegradable, but care should be taken to avoid discharge into groundwater, surface water, or storm drains. Dispose of DAFF.CO in accordance with federal, state, and local regulations.

Storage

DAFF.CO is ideally stored in its original shipping container or in tanks or other containers which have been designed for such foam storage.

Recommended construction materials are stainless steel (Type 304L or 316), high density cross-linked polyethylene, or reinforced fiberglass polyester (isophthalic polyester resin) with a vinyl ester resin internal layer coating (50 -100 mils).

Foam concentrates are subject to evaporation which accelerates when the product is exposed to air. Storage tanks should be kept full, sealed and fitted with a pressure vacuum vent to prevent free exchange of air. The recommended storage environment is within the temperature range of 35°F to 120°F (2°C to 49°C).

Shelf Life, Inspection, and Testing

The shelf life of any foam concentrate is maximized by proper storage conditions and maintenance. Factors affecting shelf life are wide temperature changes, extreme high or low temperatures, evaporation, dilution, and contamination by foreign materials. DAFF.CO firefighting foam concentrates have been tested and have not shown significant loss of performance even after 10 years or more, provided annual testing and proper storage recommendations are followed.

Annual testing of all firefighting foam is recommended by the National Fire Protection Association (NFPA). DAFF.CO provides a Technical Service Program to conduct such tests.

Container	Shipping Weight	Shipping Dimensions
5-Gallon Pails (19 liters)	44.1 lb. (20.0 kg)	1.13 cu. ft.3 (0.032 cu. m)
55-Gallon Drums (208 liters)	492 lb. (223.0 kg)	11.1 cu. ft.3 (0.314 cu. m)
275-Gallon IBC Reusable Tote Tank (1041 liters)	2494 lb. (1131.0 kg)	48.2 cu. ft.3 (1.365 cu. m)

NON-FLUORINATED

AR -SFFF 3% / 6%

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Equipment

DAFF.CO is designed for use at a 3% concentration (3 parts concentrate to 97 parts water) on hydrocarbon and a 6% concentration (6 parts concentrate to 94 parts water) on polar solvent fires. It can be easily proportioned using standard foam proportioning systems, including portable and fixed in-line venturi proportioners, handline nozzles with pick-up tubes, around-the-pump systems, and on-board Class A/B proportioners.

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