



FLUORINE FREE SYNTHETIC



3%

PRODUCT DESCRIPTION

FIRECHEM Fluorine Free Synthetic Foam (SFFF) 3% is a high-performance, fluorine-free firefighting foam concentrate formulated for Class B hydrocarbon fuel fires. When used at 3% concentration, it provides rapid flame knockdown, excellent burn-back resistance, and stable foam coverage. It is effective with fresh and sea water.

FIRECHEM Fluorine Free Synthetic Foam (SFFF) 3% is an environmentally responsible foam that forms a cohesive blanket over fuel surfaces, cutting off oxygen and suppressing flammable vapors. Its cooling effect aids in rapid fire suppression, making FIRECHEM SFFF 3% suitable for both fixed and mobile applications.

FEATURES

- 100% Fluorine-Free and biodegradable.
- Excellent burn-back resistance and fire control performance.
- Compatible with fresh & sea water.
- UL Listed as a FIRECHEM Fluorine Free Synthetic 3%, at substantially lower usage rates than most Synthetic Foams.
- Suitable for both mobile and fixed installations.
- Can be applied using low, medium, or high expansion systems.
- Stable premix for over 30 days when mixed with potable water, which is significantly longer than traditional Class A foam solutions.
- No PFAS, PFOA, or fluorinated surfactants.
- Exhibits excellent foamability, even in cold water conditions.
- Good compatibility with Class A/B Systems and Dry Powder ABC.

HARDWARE COMPATABILITY



Fixed
Proportioning
system



Foam Chambers
&
Monitors



Nozzles
&
Sprinklers



APPROVALS

SPECIFICATIONS

Product	Fluorine Free Synthetic 3% (SFFF 3%)
Use Concentration	3%
Specific Gravity @ 20°C	1.02 ± 0.02
pH	7.5 ± 1.0
Viscosity @ 20°C (LV-4 Spindle @ 100 RPM)	1800 ± 500 mPas
Foam Drainage	10 minutes minimum
Storage Temperature	1.7°C - 49°C
Foam Expansion	Low >8
Freezing Point	-5°C
Suspended Sediment	< 0.25%

AREAS OF APPLICATION

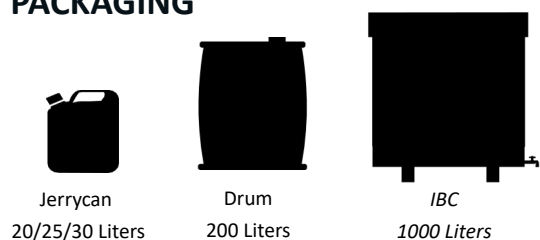
FIRECHEM Fluorine Free Synthetic 3% Foam will provide quality protection for a wide range of hazardous areas such as :

- Forestry
- Mining
- Industrial fire
- Tires Industry
- Hydrocarbon Spill Control
- Polymer manufacturing
- Domestic fire
- Mobile equipment

STORAGE AND HANDLING

The recommended storage temperature range for FIRECHEM Fluorine Free Synthetic (SFFF) 3% is 35°F (1.7°C) to 120°F (49°C). Fluorine Free Synthetic 3% is not affected by freeze/thaw cycles, and it has unique premix stability properties. Samples of FIRECHEM Fluorine Free Synthetic 3%, premixed with potable municipal water supplies, have been shown to be stable and not suffer any significant loss of expansion or drainage properties after 30 days. Actual results may vary based on the water supply. Fluorine Free Synthetic 3% should be stored in its original shipping container or in tanks or other containers that 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). Shelf life is expected to be 10 years or more when stored at the recommended temperature.

PACKAGING



ENVIRONMENTAL IMPACT

FIRECHEM Fluorine Free Synthetic 3% Foam (SFFF 3%) is:

- Fluorine-Free, PFAS-Free formulation
- Readily biodegradable and low in toxicity
- Compatible with effluent treatment plants

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