GREEN CANYON VENTURES

FS-03

TECHNICAL DATA SHEET

FS-03 Foam Concentrate

Class B fires · Fluorine-free foam concentrate, 5%

VERSION	DATE	SUPERSEDES	MANUFACTURER
2	October 2026	V.1, Feb 2026	Green Canyon Ventures LLC

Description

FS-03 is a foam concentrate developed by Green Canyon Ventures in the United States to extinguish fires involving petroleum products, chemicals and other flammable liquids.

For optimal performance, FS-03 is used together with the FS-02 fire suppressant. FS-02 triggers an endothermic reaction that absorbs heat and releases large volumes of inert nitrogen gas, sharply lowering the temperature in the fire area. FS-03 then forms a dense, stable foam blanket that smothers the fire.

Supplied as a liquid concentrate, mixed with water before use.

Fluorine-free (SFFF) · PFAS-free · Biodegradable · Non-corrosive



Refineries, fuel storage, ports, airports and industry.

Foam type

Item	Value
Type	Synthetic fluorine-free foam concentrate (SFFF, also known as F3)
Proportioning	5% in water (5 L of FS-03 per 100 L of mix)
Fire class	Class B: hydrocarbons, chemicals and flammable liquids
Fluorine / PFAS	None

Classification

Regulation	Classification
USA – OSHA HCS 29 CFR 1910.1200	Not classified as hazardous
EU – CLP Regulation (EC) 1272/2008	Not classified as hazardous
Canada – WHMIS 2015	Not classified as hazardous

Transport: not regulated as dangerous goods (US DOT, TDG, IMDG, IATA, ADR). Full details in the FS-03 Safety Data Sheet.

Composition

Anionic and non-ionic surfactants, humectants and minor additives. Contains no fluorosurfactants and no PFAS. This combination produces a foam with high density, stability and fire resistance.

Physicochemical properties

Property	Value
Appearance	Viscous, clear, yellowish liquid. It may become slightly cloudy over time without affecting performance. Foams when agitated.
Viscosity	980 cP
Density	1.07 g/cm³
pH	6.5–7
Freezing point	0 °C (32 °F)
Thermal resistance	Above 1,000 °C (1,832 °F)
Solubility	Soluble in water
Sediments	None
Shelf life	Approximately 2 years

Recommended applications

Class B fires: petroleum products, chemicals and any flammable liquid. Compatible with all types of materials, for industries, airports, ports, refineries, construction sites and more.

Mode of use

FS-03 is used in combination with the FS-02 fire suppressant. Together they deliver fast, safe extinguishment of flammable-liquid fires.

Class B protocol: FS-02 at 15% and FS-03 at 5% in water. (For structural Class A fires, FS-02 alone is used at 10%.)

Step	Action
1. Cool	Apply FS-02 mixed at 15% with water to the burning area and its surroundings. The nitrogen release sharply lowers the temperature, so crews can approach the fire safely.
2. Contain	Stop applying FS-02 to the burning area, but keep applying it to the container holding the burning fuel to keep it cool and prevent spread.
3. Smother	Apply a mix of water with 15% FS-02 and 5% FS-03 to the burning area through a foam inductor. This creates a foam blanket the fire cannot penetrate, smothering it quickly.

Equipment care

FS-03 is non-corrosive. Clean all equipment with plenty of water after using FS-03 and FS-02.

Packaging

- 1,000-liter (264 US gal) palletizable IBC totes.
- 10-liter (2.6 US gal) or 25-liter (6.6 US gal) jugs.

Safety and handling

Item	Information
Risks	Very low. Possible mild, transient eye irritation on contact.
First aid	Rinse the affected area with plenty of water.
Storage	1 °C to 50 °C (34 °F to 122 °F), in sealed containers, away from direct sunlight.
Emergency	USA 911 · Europe 112 · Green Canyon 24 h: USA/Canada +1 786 991 4134, Europe +34 687 17 30 70

Do not use on electrical fires. FS-03 contains water and conducts electricity.