

SOLBERG® EVOLUTION 3% SFFF 3% MIL-SPEC SFFF



FAST FACTS

- Meets MIL-PRF-32725
- First Mil-Spec approved fluorine-free foam with approval on hydrocarbon fuels using standard sprinkler heads
- Sprinkler Application - UL 162 Listed (aspirated and non-aspirated)
- FM Approved†
- ICAO Level B Certified
- GreenScreen Certified Silver®
- Positive spreading coefficient on jet fuel
- Biodegradable and non-persistent
- Newtonian viscosity makes for easy proportioning and engineering system design calculations
- Compatible with multiple equipment systems
- Contains no siloxanes, biopolymers or thickening agents



DESCRIPTION

SOLBERG® EVOLUTION 3% SFFF (patent pending) is a first-of-its-kind Newtonian product for Aircraft Rescue and Firefighting (ARFF) and Sprinkler Application with Mil-Spec approval. The Newtonian viscosity makes system design calculations and transitioning simpler. SOLBERG EVOLUTION 3% SFFF contains cutting-edge technology that is not persistent, contains no silicone/siloxane chemistries, no biopolymers or thickening agents, and contains no intentionally added per- and polyfluoroalkyl substances (PFAS). Designed using a proprietary combination of hydrocarbon surfactants and additives that provide rapid knockdown and fire extinguishing performance.

APPLICATIONS

SOLBERG EVOLUTION 3% SFFF is designed for fast knockdown and extinguishment of hydrocarbon fuels, including gasoline and kerosene-based fuels like Jet A and Jet A-1. Successfully meeting MIL-PRF-32725, as well as meeting UL 162 and FM 5130 through non-aspirated and aspirated standard sprinklers to extinguish and secure Class B hydrocarbon fuels. SOLBERG EVOLUTION 3% SFFF can be used with low-expansion discharge devices, including a variety of nozzles and monitors.

Completely compatible and easily proportioned using standard firefighting equipment, including in-line inductors, self-inducting nozzles, fire truck pumps, water-driven foam proportioners, bladder tanks, pump skids, balanced pressure systems, and even standard sprinkler heads according to UL 162 and FM 5130.

CERTIFICATIONS

SOLBERG EVOLUTION 3% SFFF meets the standards listed below:

- BSS7432 - Boeing Specification for the Evaluation of Airplane Maintenance Materials
- MIL-PRF-32725
- ICAO B
- UL 162
- FM 5130†
- GreenScreen Certified Silver®

USAGE RATE

The proportioning rate is 3% for hydrocarbons.

FOAM PROPERTIES

Dilution Rate	3%
Low Expansion Foam (UNI-86)	
Foam Expansion	≥8
Drain Time	≥10 minutes
Low Expansion Foam (NRL Nozzle)	
Foam Expansion	6 - 9
Drain Time	15 - 20 minutes

† Refer FM 5130 Approval Guide - applicable when manufactured at USA facility

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TYPICAL PROPERTIES

Specific Gravity, g/cm ³	1.03 - 1.07
pH @ 68°F	6.5 - 8.9
Viscosity	8 - 14 cPs
Refractive Index	1.360 - 1.400
Freezing Point, °F (°C)	14°F (-10°C)

INSPECTION

SOLBERG EVOLUTION 3% MIL-SPEC SFFF (F3) should be tested annually per National Fire Protection Association (NFPA 11) and EN-13565-2 standards. A sample of the foam concentrate should be sent to the manufacturer or qualified third-party lab to confirm that physical properties and foam quality meet the specifications of the foam as originally supplied as per the requirements of NFPA 11 and EN-13565-2.

PACKAGING

The product is supplied in five-gallon pails, 55-gallon drums, and 265-gallon totes.

PART NUMBER	DESCRIPTION
20776	5-gallon pail
20777	55-gallon drum
20778	265-gallon tote
20779	Bulk

STORAGE / MATERIAL COMPATIBILITY

SOLBERG EVOLUTION 3% SFFF should be stored between 35°F - 120°F, preferably in the original containers. It is compatible with multiple materials of construction found in firefighting equipment. For questions about material of construction compatibility, consult Perimeter Solutions technical services. The shelf life of any foam concentrate is maximized by proper storage conditions and maintenance. Factors affecting shelf life are wide temperature fluctuation, evaporation, dilution, and contamination by foreign materials. When stored in original containers or in manufacturer-recommended equipment and within the specified temperature range, SOLBERG foam concentrates have demonstrated effective firefighting performance of 10 years or greater.

⚠ CAUTIONS

Foams should not be used in contact with electrical equipment or with chemical products that can react with water. It is recommended to avoid contact of the foam concentrate with skin. In case of eye splashes, wash with plenty of water. In case of ingestion, do not induce vomiting, drink water and seek medical advice.

Contains no intentionally added PFAS.



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FOR MORE INFORMATION

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