

DWIGHT'S SIGNATURE SHIELD SERIES 1% SFFF

FAST FACTS

- 1% Fluorine Free low expansion foam for Large Atmospheric Storage Tank and processing areas with hydrocarbon fuel in depth
- Low viscosity for easy deployment through large monitors, as well as hand lines and fixed systems
- UL 162 Listed for Type III (direct attack) and Type II (Fixed Systems) with fresh and saltwater.
- Biodegradable and non-persistent. Contains no siloxanes and no intentionally added PFAS
- Compatible with multiple foam pumps and foam equipment systems.
- Proven and independently witnessed on large scale fuel in depth tank fire testing at below NFPA 11 application rates.
- 1% foam concentrate significantly reduces logistics and planning for large incidents.

DESCRIPTION

DWIGHT'S SIGNATURE SHIELD SERIES (DSSS) 1% SFFF is a first-of-its-kind 1% low viscosity fluorine-free foam for firefighting and suppression of large atmospheric storage tanks for Petrochemical, Oil and Gas. Designed for extinguishing and securing Class B (hydrocarbon fuel) with fresh, brackish and saltwater. DSSS 1% SFFF contains cutting-edge technology that is not persistent, contains no silicone/siloxane chemistries, 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. In combination with high concentration and low viscosity, this 1% foam concentrate significantly improves logistics and planning for large incidents.



APPLICATIONS

DSSS 1% SFFF is designed for fast knockdown, extinguishment and vapor suppression of hydrocarbon fuels, including gasoline and kerosene-based fuels like Jet A and Jet A-1. Successfully meets UL-162 through type III - direct attack and type II - indirect /systems with fresh and salt water. DSSS 1% SFFF can be used with low-expansion discharge devices, including a variety of nozzles and monitors. Proven and tested on the large scale through a monitor with direct attack on fuel in-depth. Completely compatible and easily proportioned using standard firefighting equipment, including in-line inductors, self-inducting nozzles, fire truck pumps, bladder tanks, pump skids, balanced pressure systems.

CERTIFICATIONS

DWIGHT'S SIGNATURE SHIELD SERIES 1% SFFF meets the standards listed below:

- UL-162 Listed:
 - Type II with fresh and salt water @ 1%
 - Type III -with fresh and salt water @ 1%



USAGE RATE

The proportioning rate is 1% for hydrocarbons.

TYPICAL PROPERTIES	
Specific Gravity, g/cm ³	1.12 - 1.15
pH @ 68°F	6.5 - 8.5
*Viscosity (#2 @60 rpm cPs)	200 - 600
Refractive Index	1.420 - 1.440
Freezing Point, °F (°C)	-4°F (-20°C)

*Brookfield DV Viscometer

TYPICAL FOAM PROPERTIES	
Dilution Rate	1%
Low Expansion Foam**	
Foam Expansion	~7
Drain Time	~25 minutes

**Expansion Ratios and Drain Times are dictated by the hardware that is used and the conditions the test are done. These data points are approximate.

INSPECTION

DWIGHT'S SIGNATURE SERIES 1% or a premix solution should be tested annually per National Fire protection Association (NFPA 11) and EN-13565-2 standards. A sample of the foam sent to the manufacturer or qualified third party lab to confirm 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

STORAGE/MATERIAL COMPATIBILITY

DWIGHTS SIGNATURE SERIES 1% SFFF should ideally be stored between 35°F - 120°F (1.7°C to 49°C) preferably in the original containers. It is compatible with multiple materials of construction found in firefighting equipment, preferably in the original containers. The foam concentrate has been successfully tested and verified stable with no loss of performance between -4°F to 120°F (-20°C to 49°C). These product stability tests last from 30 days to 90 days at temperatures ranging from 122°F to 140°F (50 to 60°C), with no adverse effects. It is not affected by freeze-thaw conditions and will return to its original, effective state upon thawing without degradation in performance. DSSS 1% SFFF is compatible with multiple materials of construction found in firefighting equipment. Do not mix with other foam concentrates without a previous verification of compatibility. For questions about material of construction compatibility consult with Solberg technical services. The foam concentrate shelf life 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 within the specified temperature range the shelf life of the product is rated to exceed 10 years.

ENVIRONMENTAL

DWIGHT'S SIGNATURE SHIELD SERIES 1% SFFF is siloxane-free and contains no intentionally added PFAS, fluorosurfactants, fluoropolymers, organohalogens, PFCAs, PFOA and no PFOS in accordance with EU Directive. Presents no concern for persistence, bioaccumulation or toxic breakdown (No PBT profile).

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.

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