

ARCTIC™ 1% SP AFFF FOAM CONCENTRATE

CONCENTRATES



Description

ARCTIC™ 1% SP AFFF foam concentrate from SOLBERG® is a synthetic foam concentrate used to effectively extinguish Class B hydrocarbon fuel fires at 1% solution. ARCTIC 1% SP AFFF foam concentrate provides rapid extinguishment and excellent burn back characteristics and can be used with fresh, salt and brackish water.

Application

ARCTIC 1% SP AFFF foam concentrate can be applied to Class B hydrocarbon fuel fires. It is not intended for use on Class B polar solvent fuels. The foam can be used to prevent re-ignition of a liquid spill and control hazardous vapors. Foam discharge devices such as non-air aspirating, as well as, air aspirating equipment, including standard sprinkler heads, can be used to obtain maximum results. The product is mixed 1 part foam concentrate to 99 parts water. It may also be used and stored as a 1% pre-mix solution. ARCTIC 1% SP AFFF foam is compatible with most powder (dry chemical).

Performance

Fire Performance

ARCTIC 1% SP AFFF foam concentrate has been tested to and meets the fire performance test criteria of Underwriters Laboratories, Inc. (UL) Standard 162 (latest edition), Underwriters' Laboratories of Canada (ULC) Standard S564.

Foam Proportioning

ARCTIC 1% SP AFFF foam concentrate can be proportioned at the proper foam solution percentage using most common proportioning devices such as:

- Eductors
- Inline balance pressure proportioners
- Ratio controllers
- Self-inducting nozzles

Storage

The storage temperature range for ARCTIC 1% SP AFFF foam concentrate is 35 °F to 120 °F (1.7 °C to 49 °C).

When stored in original containers or in manufacturer recommended equipment and within the specified temperature range, the shelf life is 20 years.

Typical Physical Properties at 77 °F (25 °C)

Appearance:	Clear, light yellow liquid
Freezing Point:	28 °F (-2.2 °C) (No quality loss after thawing)
Maximum storage temp:	120 °F (49 °C)
pH:	7.0 - 8.5
Refractive index:	1.3757 - 1.3812
Specific gravity:	1.050 - 1.090
Viscosity:	<10.0 cSt*
Sediments:	<0.05%

* Brookfield Viscometer Spindle #1,
Speed 60 rpm

Compatibility

ARCTIC 1% SP AFFF foam concentrate should not be mixed with other foam concentrates. For questions about compatibility or mixing of foam concentrates, consult Solberg Technical Services.

Materials of Construction Compatibility

ARCTIC 1% SP AFFF foam concentrate is compatible with multiple materials of construction such as carbon steel, stainless steel, brass, polyethylene and PVC. Galvanized steel should not be used in direct contact with the foam

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concentrate. For questions about material compatibility, consult Solberg Technical Services.

Inspection

ARCTIC 1% SP AFFF foam concentrate or pre-mix solutions should be inspected annually per National Fire Protection Association (NFPA) Standards 11 and 25. A sample of the foam concentrate should be sent to the manufacturer for quality conditioning testing in accordance to NFPA 11.

Environmental Information

ARCTIC 1% SP AFFF foam concentrate is formulated

with C₆ fluorosurfactants and complies with the United States Environmental Protection Agency (USEPA) 2010/2015 PFOA Product Stewardship Program. SOLBERG ARCTIC Foam concentrates do not contain PFOS.

Certifications

SOLBERG manufactured products are thoroughly inspected and undergo rigorous quality control tests. These evaluations analyze the foam’s physical parameters and the finished product’s fire performance. A Certificate of Analysis (CoA) is issued with every batch.

ARCTIC 1% SP AFFF foam

concentrate is Underwriters Laboratories, Inc. Listed in accordance with UL 162 (Standard for Safety for Foam Equipment and Liquid Concentrates), Underwriters’ Laboratories of Canada Listed (Standard for Category 1 Foam Liquid Concentrates ULC S564).

Ordering Information

ARCTIC 1% SP AFFF foam concentrate is available in pails, drums, totes and bulk quantities.

PART NO.	DESCRIPTION	APPROXIMATE SHIPPING WEIGHT	APPROXIMATE CUBE
20871	ARCTIC 1% SP AFFF, 5 gallon (20 litre) pail	45 lb (21 kg)	1.25 ft ³ (0.04 m ³)
20872	ARCTIC 1% SP AFFF, 55 gallon (200 litre) drum	495 lb (224 kg)	11.83 ft ³ (0.33 m ³)
20873	ARCTIC 1% SP AFFF, 265 gallon (1000 litre) tote	2465 lb (1118 kg)	50.05 ft ³ (1.42 m ³)
20874	ARCTIC 1% SP AFFF, bulk	Call Customer Services	

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