

# ARCTIC™ 1% AFFF FOAM CONCENTRATE



## DESCRIPTION

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

## APPLICATION

ARCTIC 1% 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, 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% AFFF foam is compatible with most powder (dry chemical).

## PERFORMANCE

### Fire Performance

ARCTIC 1% 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% 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% 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)

<b>Appearance:</b>	Clear, light yellow liquid
<b>Freezing Point:</b> (No quality loss after thawing)	28 °F (-2.2 °C)
<b>Maximum storage temp:</b>	120 °F (49 °C)
<b>pH:</b>	7.0 - 8.5
<b>Refractive index:</b>	1.3730 - 1.3785
<b>Specific gravity:</b>	1.050 - 1.090
<b>Viscosity:</b>	4.5 - 6.5 cSt*
<b>Sediments:</b>	<0.05%

\* Cannon-Fenske Viscometer

## COMPATIBILITY

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

## MATERIALS OF CONSTRUCTION COMPATIBILITY

ARCTIC 1% 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 concentrate. For questions about material compatibility, consult Perimeter Solutions Technical Services.

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## INSPECTION

ARCTIC 1% 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 assurance testing in accordance to NFPA 11.

## 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% 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% AFFF foam concentrate is available in pails, drums, totes and bulk quantities.

### FOAM CHAMBER - REPLACEMENT PARTS

PART NO.	DESCRIPTION	APPROXIMATE SHIPPING WEIGHT	APPROXIMATE CUBE
20120	ARCTIC 1% AFFF, 5 gallon (20 litre) pail	45 lb (21 kg)	1.25 ft <sup>3</sup> (0.04 m <sup>3</sup> )
20121	ARCTIC 1% AFFF, 55 gallon (200 litre) drum	495 lb (224 kg)	11.83 ft <sup>3</sup> (0.33 m <sup>3</sup> )
20122	ARCTIC 1% AFFF, 265 gallon (1000 litre) tote	2465 lb (1118 kg)	50.05 ft <sup>3</sup> (1.42 m <sup>3</sup> )
20123	ARCTIC 1% AFFF, bulk	Call Customer Services	-



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### FOR MORE INFORMATION

Contact any of our worldwide Perimeter Solutions Fire Safety offices or visit:

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