

## ARCTIC™ 1% FREEZE PROTECTED AFFF FOAM CONCENTRATE

# CONCENTRATES



### Description

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

### Application

ARCTIC 1% FP 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 concentrate can be used to prevent re-ignition of a liquid spill and control hazardous odors. 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% FP AFFF foam is compatible with most powder (dry chemical) agents.

### Performance

#### Fire Performance

ARCTIC 1% FP AFFF foam concentrate has been tested to and meets the fire performance test criteria of European Standard EN1568 Part 3 (latest edition) and International Maritime Organization (IMO) MSC.1/Circ. 1312 (latest edition).

#### Foam Proportioning

ARCTIC 1% FP 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% FP AFFF foam concentrate is 0° F to 120° F (-18° 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:	-4° F (-20° C) <i>(No quality loss after thawing)</i>
Maximum storage temp:	120° F (49° C)
pH:	7.0 - 8.0
Refractive index:	1.3880 - 1.3970
Specific gravity:	1.055 - 1.070
Viscosity:	8 - 11 cSt*
Sediments:	None

\*Cannon - Fenske Viscometer

### Compatibility

ARCTIC 1% FP 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% FP 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 Solberg Technical Services.

*Solberg is a global company that is a one-stop resource for firefighting foam concentrates and custom-designed foam suppression systems hardware, offering both traditional and innovative firefighting foam technology. [www.solbergfoam.com](http://www.solbergfoam.com)*



**Inspection**

ARCTIC 1% FP 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% FP AFFF foam concentrate complies with the

United States Environmental Protection Agency (USEPA) Stewardship Program—2015 Requirements.

**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% FP

AFFF foam concentrate is Approved to European Standard EN1568 Part 3 and International Maritime Organization (IMO) MSC.1/Circ. 1312 Approved.

**Ordering Information**

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

PART NO.	DESCRIPTION	APPROXIMATE SHIPPING WEIGHT	APPROXIMATE CUBE
20125	ARCTIC 1% FP AFFF, 5 gallon (20 litre) pail	45 lb (21 kg)	1.25 ft <sup>3</sup> (0.04 m <sup>3</sup> )
20126	ARCTIC 1% FP AFFF, 55 gallon (200 litre) drum	495 lb (224 kg)	11.83 ft <sup>3</sup> (0.33 m <sup>3</sup> )
20127	ARCTIC 1% FP AFFF, 265 gallon (1000 litre) tote	2465 lb (1118 kg)	50.05 ft <sup>3</sup> (1.42 m <sup>3</sup> )
20128	ARCTIC 1% FP AFFF, bulk	Call Customer Services	