

ARCTIC™ 1x3% ATC™ FOAM CONCENTRATE



# CONCENTRATES



## Description

ARCTIC™ 1x3 ATC™ foam concentrate from SOLBERG® is a synthetic, alcohol-resistant foam concentrate used to effectively extinguish Class B hydrocarbon fuel fires at 1% and polar solvent fuel fires at 3%. ARCTIC 1x3 ATC foam provides rapid extinguishment and excellent burn back characteristics and can be proportioned at 1% or 3% solution in fresh, salt and brackish water.

## Application

ARCTIC 1x3 ATC foam concentrate can be applied to either Class B hydrocarbon or polar solvent fuel fires. The product is mixed 1 part foam concentrate to 99 parts water for hydrocarbon fuels or 3 parts foam concentrate to 97 parts water for polar solvent fuels. It may also be used as either a 1% or 3% pre-mix solution. The foam can be used to prevent re-ignition of a liquid spill and control hazardous vapors. Foam discharge devices such as air aspirating, as well as,

non-air aspirating equipment can be used to obtain maximum results. ARCTIC 1x3 ATC foam is compatible with most powder (dry chemical) agents.

## Performance

### Fire Performance

ARCTIC 1x3 ATC 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 and European Standard EN1568 Parts 3 & 4 (latest edition).

### Foam Proportioning

ARCTIC 1x3 ATC 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

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

Appearance:	Light yellow non-newtonian liquid
Freezing Point:	28 °F (-2.2 °C) <i>(No quality loss after thawing)</i>
Maximum storage temp:	120 °F (49 °C)
pH:	7.0 - 8.5
Refractive index:	1.3624 - 1.3674
Specific gravity:	1.005 - 1.055
Viscosity:	2400 - 3400 cP*
Sediments:	<0.05%

\*Brookfield Viscometer Spindle #4, Speed 30 rpm

## Storage

The storage temperature range for ARCTIC 1x3 ATC 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.

**SOLBERG is a member of PERIMETER SOLUTIONS, a global producer of leading fire retardant, gel and foam brands with a singular purpose: revolutionize the course of fire suppression technology with safer, more effective and more sustainable solutions. Together, we are Moving Industries Forward by Redefining Fire Suppression. [www.solbergfoam.com](http://www.solbergfoam.com)**



**Compatibility**

ARCTIC 1x3 ATC 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 1x3 ATC foam concentrate is compatible with multiple materials of construction like 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.

**Inspection**

ARCTIC 1x3 ATC 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 1x3 ATC foam concentrate is formulated with C<sub>6</sub> 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 1x3 ATC 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 and 2 Foam Liquid Concentrates ULC S564), Approved to European Standard EN 1568 Parts 3 & 4, and meets the quality and performance test requirements of LASTFIRE.

**Ordering Information**

ARCTIC 1x3 ATC foam concentrate is available in pails, drums, totes and bulk quantities.

PART NO.	DESCRIPTION	APPROXIMATE SHIPPING WEIGHT	APPROXIMATE CUBE
20100	ARCTIC 1x3 ATC, 5 gallon (20 litre) pail	45 lb (21 kg)	1.25 ft <sup>3</sup> (0.04 m <sup>3</sup> )
20101	ARCTIC 1x3 ATC, 55 gallon (200 litre) drum	495 lb (224 kg)	11.83 ft <sup>3</sup> (0.33 m <sup>3</sup> )
20102	ARCTIC 1x3 ATC, 265 gallon (1000 litre) tote	2465 lb (1118 kg)	50.05 ft <sup>3</sup> (1.42 m <sup>3</sup> )
20103	ARCTIC 1x3 ATC, bulk	Call Customer Services	



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