

ARCTIC™ 1x3% FREEZE PROTECTED ATC™
FOAM CONCENTRATE



CONCENTRATES



Description

ARCTIC™ 1x3 FP ATC™ foam concentrate from SOLBERG® is a freeze protected, 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 FP 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 FP 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 non-air aspirating, as well as, air aspirating

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

Performance

Foam Proportioning

ARCTIC 1x3 FP 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

Storage

The storage temperature range for ARCTIC 1x3 FP ATC foam concentrate is -20 °F to 120 °F (-29 °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:	Pale straw colored gelled liquid
Freezing Point:	-25 °F (-32 °C) <i>(No quality loss after thawing)</i>
Maximum storage temp:	120 °F (49 °C)
pH:	7.0 - 8.5
Refractive index:	1.3960 - 1.4010
Specific gravity:	1.032 - 1.072
Viscosity:	2300 - 3300 cP*
Sediments:	< 0.05%

*Brookfield Viscometer Spindle #4, Speed 30 rpm

Compatibility

ARCTIC 1x3 FP ATC foam concentrate should not be mixed with other foam concentrates. For questions about compatibility or mixing of foam concentrates, consult Solberg Technical Services.

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



Materials of Construction Compatibility

ARCTIC 1x3 FP 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 FP 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 FP ATC 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.

Ordering Information

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

PART NO.	DESCRIPTION	APPROXIMATE SHIPPING WEIGHT	APPROXIMATE CUBE
20250	ARCTIC 1x3 FP ATC, 5 gallon (20 litre) pail	45 lb (21 kg)	1.25 ft ³ (0.04 m ³)
20251	ARCTIC 1x3 FP ATC, 55 gallon (200 litre) drum	495 lb (224 kg)	11.83 ft ³ (0.33 m ³)
20252	ARCTIC 1x3 FP ATC, 265 gallon (1000 litre) tote	2465 lb (1118 kg)	50.05 ft ³ (1.42 m ³)
20253	ARCTIC 1x3 FP ATC, bulk	Call Customer Services	



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FORM NUMBER F-2014012-2

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