

ARCTIC™ 3% MIL-SPEC AFFF FOAM CONCENTRATE

# CONCENTRATES



## Description

ARCTIC™ 3% MIL-SPEC AFFF foam concentrate from SOLBERG® is a synthetic foam concentrate used to effectively extinguish Class B hydrocarbon fuel fires at 3% solution. ARCTIC 3% MIL-SPEC AFFF foam provides rapid extinguishment and excellent burn back characteristics and can be used with fresh, salt and brackish water.

## Application

ARCTIC 3% MIL-SPEC 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 air aspirating, as well as non-air aspirating equipment, including standard fire sprinkler heads, can be used to obtain maximum results. The product is mixed 3 parts foam concentrate to 97 parts water. It may also be used as a 3% pre-mix solution. ARCTIC 3% MIL-SPEC AFFF foam is compatible with most powder (dry chemical) agents.

## Performance

### Fire Performance

ARCTIC 3% MIL-SPEC AFFF foam concentrate has been tested to and meets the fire performance test criteria of Underwriters Laboratories, Inc. (UL) Standard 162, Underwriters' Laboratories of Canada (CAN/ULC) Standards S560, S564, International Civil Aviation Organization (ICAO) Level C and U.S. Military Specification MIL-F-24385F.

### Foam Proportioning

ARCTIC 3% MIL-SPEC 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 3% MIL-SPEC AFFF foam concentrate is 35 °F to 120 °F (1.7 °C to 49 °C).

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

Appearance:	Clear, light yellow 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 - 8.0
Refractive index:	1.3630 - 1.3730
Specific gravity:	1.009 - 1.049
Viscosity:	2.0 - 20.0 cSt*
Sediments:	<0.05%

\* Cannon-Fenske Viscometer

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

## Compatibility

ARCTIC 3% MIL-SPEC AFFF foam concentrate is compatible with any other comparable 3% MIL-SPEC AFFF QPL concentrate manufactured in accordance with and conforming to all performance requirements of U.S. Military Specification MIL-F-24385F or any preceding version of this military specification.

**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)**



**Materials of**

**Construction Compatibility**

ARCTIC 3% MIL-SPEC 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.

**Inspection**

ARCTIC 3% MIL-SPEC 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 3% MIL-SPEC AFFF 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. 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 finished product’s fire performance. A Certificate of Analysis (CoA) is available for every batch.

ARCTIC 3% MIL-SPEC 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 in accordance with ULC S564 (Standard for Categories 1 and 2 Foam Liquid Concentrates), CAN/ULC S560 (Standard for Category 3 Foam Liquid Concentrates), International Civil Aviation Organization (ICAO) Airport Services Manual (DOC 9137-AN/898) Part 1 - Rescue and Firefighting, Level C Certified and Qualified Product List (QPL) for U.S. Military Specification MIL-F-24385F.

**Ordering Information**

ARCTIC 3% MIL-SPEC AFFF foam concentrate is available in pails, drums, totes and bulk quantities.

PART NO.	DESCRIPTION (COMMERCIAL PACKAGING)	APPROXIMATE SHIPPING WEIGHT	APPROXIMATE CUBE
20405	ARCTIC 3% MIL-SPEC AFFF, 5 gallon (19 litre) pail	45 lb (21 kg)	1.25 ft <sup>3</sup> (0.04 m <sup>3</sup> )
20406	ARCTIC 3% MIL-SPEC AFFF, 55 gallon (208 litre) drum	495 lb (224 kg)	11.83 ft <sup>3</sup> (0.33 m <sup>3</sup> )
20407	ARCTIC 3% MIL-SPEC AFFF, 265 gallon (1003 litre) tote	2465 lb (1118 kg)	50.05 ft <sup>3</sup> (1.42 m <sup>3</sup> )
20408	ARCTIC 3% MIL-SPEC AFFF, bulk	Call Customer Services	



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FORM NUMBER F-2015006-3

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