

## ARCTIC™ 3% DB AFFF FOAM CONCENTRATE

# CONCENTRATES



### Description

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

### Application

ARCTIC 3% DB 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. Solberg recommends that fluorine containing foam products not be used on Class A fires due to the uncontrolled release of organofluorine to the environment. However, if used on Class A fires, ARCTIC 3% DB AFFF foam concentrate can be proportioned at 0.5% to 3.0% which will provide superior knockdown and extinguishment over plain water. Foam discharge devices such as

air aspirating, as well as, non-air aspirating equipment 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% DB AFFF foam is compatible with most powder (dry chemical) agents.

### Performance

#### Fire Performance

ARCTIC 3% DB 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 (latest edition) and European Standard EN1568 Part 3 (latest edition).

#### Foam Proportioning

ARCTIC 3% DB 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

### 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 - 8.5
Refractive index:	1.3450 - 1.3470
Specific gravity:	1.010 - 1.030
Viscosity:	1.2 - 4.9 cSt*
Sediments:	<0.05%

\* Cannon-Fenske Viscometer

### Storage

The temperature range for ARCTIC 3% DB 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.

### Compatibility

ARCTIC 3% DB AFFF 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 THE AMEREX GROUP, an alliance of independent companies 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% DB 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% DB 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% DB AFFF foam concentrate is formulated with C<sub>6</sub> fluorosurfactants and complies with the United States Environmental Protection Agency (USEPA) 2010/2015 PFOA 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 issued with every batch.

ARCTIC 3% DB 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), Approved to European Standard EN1568 Part 3.

**Ordering Information**

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

PART NO.	DESCRIPTION	APPROXIMATE SHIPPING WEIGHT	APPROXIMATE CUBE
20270	ARCTIC 3% DB AFFF, 5 gallon (20 litre) pail	44 lb (20 kg)	1.25 ft <sup>3</sup> (0.04 m <sup>3</sup> )
20271	ARCTIC 3% DB AFFF, 55 gallon (200 litre) drum	485 lb (220 kg)	11.83 ft <sup>3</sup> (0.33 m <sup>3</sup> )
20272	ARCTIC 3% DB AFFF, 265 gallon (1000 litre) tote	2355 lb (1068 kg)	50.05 ft <sup>3</sup> (1.42 m <sup>3</sup> )
20273	ARCTIC 3% DB AFFF, bulk	Call Customer Services	

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