

**BLAZE**

Foam Concentrate

BT Freeze Protect AFFF 3%

Description:

BT AFFF 3% Freeze Protected is a premium-quality aqueous film-forming foam concentrate specially developed for effective firefighting performance in extremely low-temperature environments. It is designed to extinguish fires involving non-polar hydrocarbon fuels and is compatible with most standard proportioning and discharge equipment. The foam concentrate rapidly forms a thin aqueous film over the fuel surface, helping to suppress flammable vapours and quickly control the fire. The foam blanket effectively separates oxygen from the fuel surface, extinguishes flames, and minimizes the risk of re-ignition. Its water content also provides a strong cooling effect for improved fire suppression. BT AFFF 3% Freeze Protected also offers excellent wetting and penetrating properties for Class A fires involving wood, paper, rubber, and other ordinary combustible materials. Its freeze-protected formulation ensures reliable performance and dependable fire protection even in harsh and cold operating conditions.

Features :

- UL Listed.
- Suitable for use with both aspirating foam and standard water fog nozzles.
- If inadvertently frozen, thawing will render product completely serviceable again.
- Suitable for use with fiber glass, polyethylene or stainless steel. BLAZE BT AFFF 3% Freeze Protected is not compatible with galvanised pipe or fittings in an undiluted form.
- Suitable for use with either fresh or salt water.
- Suitable for use with deluge or closed head foam water sprinkler systems.
- Suitable for use with siliconised dry chemical extinguishing agents.
- Suitable for use at temperatures up to -25 ° C

Applications:

BT AFFF 3% Freeze Protected will provide quality protection for a wide range of hazardous areas such as:

- Crash Fire Rescue
- Defense Facilities
- Storage tanks
- Truck/Rail loading or unloading facilities
- Processing/Storage facilities
- Docks/Marine tankers
- Flammable liquid containment areas
- Mobile equipment

Performance:

The fire performance of BT AFFF 3% Freeze Protected is as per Underwriters Laboratories Standard UL 162

Discharge Devices - BT AFFF 3% Freeze Protected is suitable for use with the following discharge devices:	Proportioning devices - BT AFFF 3% Freeze Protected is designed for use with the following types of proportioning equipment:
Foam Chambers	Fixed or portable in-line eductors
Air-aspirating and non-air-aspirating sprinkler heads or spray nozzles.	In-line balanced pressure and pump pressure proportioning skid
Standard water fog nozzles for handlines and monitors	Bladder tank proportioning systems
Air-aspirating foam nozzles	Handline, air-aspirating nozzles with fixed eductor pickup tube
Foam Makers for use with either Floating Roof Storage tanks or Dyke/Bund protection systems	Around the pump proportioners
High back pressure foam makers for subsurface base injection system (hydrocarbon type fuels only)	-

BLAZETECH SYSTEMS LTD. contact@blaze-tech.co.uk

Milton Keynes, United Kingdom

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PRECISION YOU CAN TRUST**01/02**

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Specifications:

Product	BT Freeze Protect AFFF 3%
Concentration	3%
Specific Gravity	1.05 ± 0.03 g / ml
pH	8.0 ± 0.5
Viscosity @ 20°C	< 20 cst
Suspended sediment (v/v)	< 0.1 %
Freezing Point	-27°C
Pour Point	-26°C
Storage Temperature	-25°C- + 49°C
Foam Expansion	Low > 7
Foam Drainage 25%	3 minutes minimum

Approvals:

Quality Management Systems ISO 9001 : 2015

Environmental Management Systems ISO 14001 : 2015

Occupational Health and Safety Management Systems

ISO 45001 - 2018

UL 162 Listed :

- Foam Quality Tests
- Class B Fire Test
- Foam Identification Tests
- Tests of Shipping Containers

Storage and Handling :

BT AFFF 3% Freeze Protected is designed for long-term storage stability and can be stored in its original shipping containers without any change to its physical or chemical properties. When maintained at recommended storage temperatures and kept in original containers, the foam concentrate offers an expected shelf life of 10 years or more.

The product remains stable during storage and does not show significant sedimentation or precipitation, even after temperature cycling. Freezing and thawing conditions do not affect its firefighting performance, and the concentrate continues to proportion effectively through standard firefighting equipment at temperatures above +2°C.

For optimum performance and compatibility, synthetic foam concentrates should only be stored in approved containers such as stainless steel tanks (Type 304L or 316), reinforced fiberglass polyester tanks with a vinyl ester resin internal lining, or suitable plastic containers.

Environmental Impact :

BT AFFF 3% Freeze Protected is biodegradable, low in toxicity and can be treated in sewage treatment plants.

Ordering Information	
BT AFFF 3% Freeze Protected - JA	20L Jerry can
BT AFFF 3% Freeze Protected - JB	25L Jerry can
BT AFFF 3% Freeze Protected - D	200L Drum
BT AFFF 3% Freeze Protected - IBC	1000L IBC

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