

**BLAZE**

Foam Concentrate

BT AFFF 1% C6

Description:

BT AFFF 1% C6 is a high-performance aqueous film-forming foam specially developed for effectively extinguishing fires involving non-polar hydrocarbon fuels. Designed for use at the recommended concentration, it is compatible with a wide range of proportioning and discharge systems, making it a reliable choice for industrial and fire safety applications.

This advanced foam concentrate delivers rapid fire suppression by forming a thin aqueous film over the fuel surface. The film helps control the release of flammable vapours, while the foam blanket cuts off the oxygen supply to the fire, quickly extinguishing flames and reducing the risk of re-ignition. In addition, the water content within the foam provides an effective cooling action for enhanced fire control.

The superior performance of BT AFFF 1% C6 is achieved through specially formulated fluorocarbon surfactants that lower the surface tension of the foam solution, allowing the aqueous film to spread efficiently across the fuel surface.

Apart from hydrocarbon fuel fires, BT AFFF 1% C6 also offers excellent wetting and penetrating properties for Class A fire hazards. This makes it highly effective for tackling deep-seated fires involving materials such as wood, paper, rubber, and other ordinary combustibles.

Features :

- UL Listed Foam Liquid Concentrate.
- 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. BT AFFF 1% C6 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
- UL recommended application rate on hydrocarbon type fuels is 0.10gpm/ft²

Applications:

BT AFFF 1% C6 will provide quality protection for a wide range of hazardous areas such as:

- Crash Fire Rescue
- Defense Facilities
- Storage tanks (non-polar solvent type fuels only)
- 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 1% C6 is measured against Underwriters Laboratories Standard UL 162

Discharge Devices - BT AFFF 1% C6 is suitable for use with the following discharge devices:	Proportioning devices - BT AFFF 1% C6 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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Specifications:

Product	BT AFFF 1% C6
Concentration	1%
Specific Gravity	1.03 ± 0.02 g / ml
pH	7.5 ± .5
Viscosity @ 20°C	<10 cst
Suspended sediment (v/v)	< 0.1 %
Freezing Point	-2°C
Pour Point	-1°C
Storage Temperature	+2°C to +50°C
Foam Expansion	Low > 7
Foam Drainage 25%	3 minutes minimum

Approvals:

Quality Management Systems ISO 9001 : 2015

Environmental Management Systems ISO 14001 : 2015

UL 162 Listed :

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

Storage and Handling :

BT AFFF 1% C6 is formulated for long-term stability and reliable performance under recommended storage conditions. When stored in its original containers and within the specified temperature range, the foam concentrate maintains its physical and chemical properties without deterioration. The product offers an expected shelf life of 10 years or more under proper storage conditions.

The concentrate is highly stable and does not exhibit significant sedimentation or precipitation, even after exposure to temperature cycling. It also withstands freezing and thawing conditions without affecting its firefighting performance. Additionally, the foam concentrate can be proportioned efficiently through standard firefighting equipment at temperatures above +2°C.

For optimum storage and compatibility, synthetic foam concentrates should be kept only 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 1% C6 is biodegradable, low in toxicity and can be treated in sewage treatment plants.

Ordering Information	
BT AFFF 1% C6 - JA	20L Jerry can
BT AFFF 1% C6 - JB	25L Jerry can
BT AFFF 1% C6 - D	200L Drum
BT AFFF 1% C6 - IBC	1000L IBC

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