

**BLAZE**

Foam Concentrate

BT AFFF 3% C6

Description:

BT AFFF 3% C6 is a premium-quality aqueous film-forming foam specially engineered for effective control and extinguishment of fires involving non-polar hydrocarbon fuels. Designed for use at the recommended concentration, this foam concentrate is compatible with a wide variety of proportioning and discharge systems, making it suitable for diverse firefighting applications.

The foam delivers rapid fire suppression by creating a thin aqueous film over the fuel surface, helping to reduce the release of flammable vapours. At the same time, the foam blanket isolates the fuel from oxygen, quickly extinguishing the fire and minimizing the possibility of re-ignition. Its water content also contributes to efficient cooling of the affected area.

BT AFFF 3% C6 utilizes advanced fluorocarbon surfactant technology to lower the surface tension of the foam solution, allowing the aqueous film to spread smoothly across the fuel surface for superior firefighting performance.

In addition to hydrocarbon fuel fires, BT AFFF 3% C6 offers excellent wetting and penetrating capabilities for Class A fire risks. This makes it highly effective in controlling deep-seated fires involving materials such as wood, paper, rubber, textiles, and other ordinary combustible materials.

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 3% 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 3% 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 3% C6 is measured against Underwriters Laboratories Standard UL 162

Discharge Devices - BT AFFF 3% C6 is suitable for use with the following discharge devices:	Proportioning devices - BT AFFF 3% 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

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Specifications:

Product	BT AFFF 3% C6
Concentration	3%
Specific Gravity	1.02 ± 0.05 g / ml
pH	6 - 8.5
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

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% 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 3% C6 is biodegradable, low in toxicity and can be treated in sewage treatment plants.

Ordering Information

BT AFFF 3% C6 - JA	20L Jerry can
BT AFFF 3% C6 - JB	25L Jerry can
BT AFFF 3% C6 - D	200L Drum
BT AFFF 3% C6 - IBC	1000L IBC

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