

**BLAZE**

# Foam Concentrate

**BT AR-SFFF 3% x 3%**

## Description:

BT AR-SFFF 3% x 3% is a specially engineered synthetic fluorine-free foam concentrate developed for high-performance firefighting with minimal environmental impact. Formulated without fluorine or alkyl phenol ethoxylates, this advanced foam concentrate is fully biodegradable, making it one of the most environmentally responsible solutions for Class B fire protection.

The foam produces a strong, stable, and highly cohesive foam blanket that spreads rapidly across the fuel surface to deliver fast fire knockdown and efficient extinguishment. Its durable foam layer also helps prevent re-ignition by sealing the fuel surface from oxygen and suppressing the release of flammable vapours.

BT AR-SFFF 3% x 3% is designed for effective use on hydrocarbon fuels such as gasoline, diesel, kerosene, and similar petroleum products, as well as on polar solvent and water-miscible fuels including alcohols, ketones, esters, and related chemicals. The foam is applied at a consistent 3% proportioning rate for both fuel types, offering operational simplicity and dependable firefighting performance across a wide range of industrial applications.

## Features :

- Because of its superior environmental impact properties, this product is ideally suited for municipalities and fire departments.
- Excellent wetting characteristics when used in combating Class A fuel fires.
- Suitable for use with either fresh, brackish, or sea water.
- Contains no fluorosurfactants or fluorine! Suitable for use with aspirating foam nozzles.
- Suitable for use with certain deluge or closed head foam water sprinkler systems.
- If inadvertently frozen, thawing will render product completely serviceable again.
- Suitable for use with carbon steel, fibreglass, polyethylene or stainless steel. BT AR-SFFF is not compatible with galvanized pipe or fittings in an undiluted form.

## Applications:

BT AR-SFFF 3% x 3% 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 AR-SFFF 3% x 3% is measured against Underwriters Laboratories Standard UL 162

| Discharge Devices - BT AR-SFFF 3% x 3% is suitable for use with the following discharge devices:  | Proportioning devices - BT AR-SFFF 3% x 3% 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](mailto:contact@blaze-tech.co.uk)

Milton Keynes, United Kingdom

[www.blaze-tech.co.uk](http://www.blaze-tech.co.uk)

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## Specifications:

|                                 |                    |
|---------------------------------|--------------------|
| <b>Product</b>                  | BT AR-SFFF 3% x 3% |
| <b>Concentration</b>            | 3% - 3%            |
| <b>Appearance</b>               | Pale Yellow Colour |
| <b>Specific Gravity</b>         | 1.05 ± 0.03 g / ml |
| <b>pH</b>                       | 7.0 ± 8.5          |
| <b>Viscosity @ 20°C</b>         | 1750 ± 500 cps     |
| <b>Suspended sediment (v/v)</b> | < 0.10 %           |
| <b>Freezing Point</b>           | -2°C               |
| <b>Pour Point</b>               | -1°C               |
| <b>Storage Temperature</b>      | +2°C to +50°C      |
| <b>Foam Expansion</b>           | Low > 7            |
| <b>Foam Drainage 25%</b>        | 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 AR-SFFF 3% x 3% is formulated for long-term storage stability and can be safely stored in its original shipping containers without any change in its physical or chemical properties. When maintained at recommended storage temperatures and kept in original containers, the product offers an expected shelf life of 10 years or more.

For storage in atmospheric foam concentrate tanks, whether installed on mobile firefighting equipment or stationary systems, it is recommended to minimize the air space above the foam concentrate surface wherever possible. To further reduce the effects of evaporation and maintain product quality, a thin layer of high-quality mineral oil may be applied over the surface of the foam concentrate. This helps preserve the foam's performance and extends its storage reliability over time.

## Environmental Impact :

BT AR- SFFF 3% x 3% is biodegradable, low in toxicity and can be treated in sewage treatment plants.

| Ordering Information     |               |
|--------------------------|---------------|
| BT AR-SFFF 3% x 3% - JA  | 20L Jerry can |
| BT AR-SFFF 3% x 3% - JB  | 25L Jerry can |
| BT AR-SFFF 3% x 3% - D   | 200L Drum     |
| BT AR-SFFF 3% x 3% - IBC | 1000L IBC     |

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