



FOAM CONCENTRATES

BFC - 3MS PREMIUM 3% MILITARY SPECIFICATION AQUEOUS FILM FORMING FOAM CONCENTRATE (3% MS-AFFF)

DESCRIPTION

Buckeye Premium 3% MS-AFFF is a premium grade AFFF concentrate designed specially to comply with US MIL-F-24385. It forms a vapor suppressing aqueous film on Class B Hydrocarbon fuel surfaces as the foam solution drains from the foam blanket. It is intended for use at a proportioning rate of 3% (3 parts MS-AFFF concentrate to 97 parts water) on Class B Hydrocarbon type fuels, such as gasoline, kerosene and diesel. Buckeye Premium 3% MS-AFFF is not intended for use on fuels which are polar solvent/water miscible such as alcohols, ketones ethanol and esters.

FEATURES

Buckeye Premium 3% MS-AFFF concentrate appears on the QPL (Qualified Products List) for MIL-F-24385 - latest amendment. Subsequently this product conforms to all performance and compatibility requirements of U.S. Military Specifications MIL-F-24385 -latest amendment.

- U.L. Listed.
- Suitable for use with either fresh or salt water.
- Excellent wetting characteristics when used in combating Class A type fires.
- Suitable for use with both air-aspirating foam and-standard water fog nozzles.
- Suitable for use with Deluge or Closed-Head Foam Water Sprinkler systems.
- If inadvertently frozen, thawing will render product completely serviceable again.
- Suitable for use with carbon steel, fiberglass, polyethylene, or stainless steel. Buckeye Premium 3% MS-AFFF is not compatible with galvanized pipe or fittings in an undiluted form.
- Suitable for use with dry chemical extinguishing agents.
- U. L. recommended application rate on Class B Hydrocarbon type fuels is 0.10/gpm sq. ft. for hoseline and/or monitor applications

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- Conforms to all performance and compatibility requirements of U.S. Military specification Mil-F- 24385 latest amendment.

PROPORTIONING

Buckeye Premium 3% MS-AFFF is designed for use with the following types of proportioning equipment.

- In-Line Eductors, fixed or portable.
- In-Line Balanced Pressure (ILBP) and pump pressure proportioning skid.
- Bladder tank Balanced Pressure proportioning systems.
- Around-the-Pump proportioners.
- Handline, air-aspirating nozzles with fixed eductor pickup tube.

DISCHARGE DEVICES

Buckeye Premium 3% MS-AFFF is suitable for use with the following discharge devices.

- Foam Chambers.
- Air-aspirating and non air-aspirating sprinklers or spray nozzles.
- Standard water fog nozzles for handlines and monitors.
- Air-aspirating foam nozzles.
- Foam makers for use with either Floating Roof storage tanks or Dike/Bund protection systems.
- High Back Pressure Foam Makers for subsurface base injection system (Class B Hydrocarbon type fuels only.)



APPLICATIONS

Buckeye Premium 3% MS-AFFF will provide quality protection for a wide range of hazardous areas such as:

- Crash Fire Rescue.
- Storage tanks (nonpolar solvent type fuels only.)
- Truck/Rail loading or unloading facilities.
- Processing/Storage facilities.
- Docks/Marine tankers.
- Flammable liquid containment areas.
- Mobile equipment.

PERFORMANCE

To ensure the fire fighting performance requirements required in today's environment, Buckeye fire tests their Premium 3% MS-AFFF to the fire performance requirements of:

U.L. 162.

UK. Ministry of Defense 42-24.

U.S. Military Specification MIL-F-24385 latest amendment.

FOAMING PROPERTIES

Aspirating type discharge devices typically generate expansion ratios between 6-10 to 1 when Premium 3% MS-AFFF is mixed with water at the correct ratio. Non-aspirating type devices will typically generate expansion ratios of between 2-4 to 1. Expansion ratios are dictated by the type of discharge devices, flow rate and discharge pressure.

TYPICAL PROPERTIES AT 77°F (25°C)

| | |
|------------------|---------------|
| Appearance | Colorless |
| Specific Gravity | 1.010 - 1.020 |
| pH | 7.0 - 8.0 |
| Viscosity | 3.5 - 4.5 cps |

COMPATIBILITY

Buckeye Premium 3% MS-AFFF is compatible with any other 3% AFFF manufactured in accordance with and conforming to all performance requirements of U.S. Mil-spec Mil-F-24385 latest amendment or any preceding version of this specification.

ENVIRONMENTAL IMPACT

Buckeye Premium 3% MS-AFFF is biodegradable, low in toxicity and can be treated in sewage treatment plants. Refer to Buckeye Technical Bulletin regarding foam products and the environment.

STORAGE

If kept in the original manufacturer's supplied container and stored within the temperature range of 35°F - 120°F (2°C - 49°C) a shelf life of between 20-25 years can be expected. When stored in other than the manufacturer's supplied container, check with Buckeye for storage guidelines.

ORDERING INFORMATION

Buckeye Premium 3% MS-AFFF is available in 5 gallon plastic pails, 55 gallon plastic drums, 275 gallon plastic totes or can be shipped in bulk.

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|----------------|------------------------|
| Part No. 52100 | 5 Gal. Pail (19 L) |
| Part No. 52105 | 55 Gal. Drum (205 L) |
| Part No. 52110 | 275 Gal. Tote (1042 L) |

SHIPPING WEIGHT

| | |
|---------------|-----------|
| 5 Gal. Pails | 44 lbs. |
| 55 Gal. Drum | 485 lbs. |
| 275 Gal. Tote | 2485 lbs. |

