



FOAM CONCENTRATES

BFC - 36LT AR-AFFF 3%-6% LOW TEMPERATURE ALCOHOL RESISTANT FILM FORMING FOAM CONCENTRATE (3%-6% LT AR-AFFF)

DESCRIPTION

Buckeye 3%-6% LT AR-AFFF is a specially formulated, AFFF designed to be used in cold climates. It is a multi-purpose agent producing a vapor suppressing aqueous film on Class B Hydrocarbon type fuels or a polymeric membrane on water miscible type fuels. It is intended for use at a proportioning rate of 3% (3 parts LT AR-AFFF concentrate to 97 parts water) on Class B Hydrocarbon fuels such as gasoline, kerosene and diesel. Buckeye 3%-6% LT AR-AFFF is intended for use at a 6% proportioning rate (6 parts AR-AFFF concentrate to 94 parts water) on polar solvent/ water miscible fuels such as alcohols, ketones and esters.

FEATURES

- Suitable for use with either fresh or salt water.
- Excellent wetting characteristics when used in combating Class A fires.
- Suitable for use with Deluge and Closed-Head Foam Water Sprinkler systems.
- Suitable for use with fiberglass, polyethylene or stainless steel. Buckeye 3%-6% LT AR-AFFF is not compatible with galvanized pipe or fittings in an undiluted form.
- Suitable for use with dry chemical extinguishing agents.
- Suitable for use on Class B Hydrocarbon or polar solvent type fuels.
- Suitable for use with both air-aspirating foam and standard water fog nozzles.

PROPORTIONING

Buckeye 3%-6% LT AR-AFFF is designed for use with the following types of proportioning equipment.

- Fixed or portable in-line eductors.
- In-Line Balanced Pressure (ILBP) 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 3%-6% LT AR-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.)

FOAMING PROPERTIES

Aspirating type discharge devices typically generate expansion ratios between 6-10 to 1 when 3%-6% LT AR-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 device, flow rate and discharge pressure.

DESIGN INFORMATION

Cannot be used in subsurface applications with polar solvent type fuels.

TYPICAL PROPERTIES AT 77°F (25°C)

Appearance	Viscous light tan
Specific gravity	1.010 - 1.050
pH	7.0 - 8.0
Viscosity	2600 - 3200 cps



APPLICATION RATES

Recommend application rate on Class B Hydrocarbon type fuels is 0.10 gpm/sq. ft. and on polar solvent type fuels is 0.15 gpm/sq. ft. The recommended minimum application rates for the following specific polar solvent type fuels are:

IPA	0.15 gpm/sq. ft.
METHANOL	0.10 gpm/sq. ft.
ETHANOL	0.10 gpm/sq. ft.
ACETONE	0.14 gpm/sq. ft.
METHYL ETHYL KETONE	0.10 gpm/sq. ft.
ETHYLACETATE	0.10 gpm/sq. ft.
MTBE	0.15 gpm/sq. ft.

ENVIRONMENTAL IMPACT

Buckeye 3%-6% LT AR-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 0°F - 120°F (-18°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. If the AR-AFFF is to be stored in an atmospheric type foam concentrate storage tank whether on mobile apparatus or stationary, limit the airspace above the surface of the concentrate where possible and place a thin layer of quality mineral oil on the surface of the foam concentrate to minimize any effect from evaporation.

ORDERING INFORMATION

Buckeye 3%-6% LT AR-AFFF is available in 5 gallon plastic pails, 55 gallon plastic drums, 275 gallon plastic totes or can be shipped in bulk

Part No. 50205	5 Gal. Pail (19 L)
Part No. 50210	55 Gal. Drum (209 L)
Part No. 50215	275 Gal. Tote (1042L)

SHIPPING WEIGHT

5 Gal. Pail	44 lbs.
55 Gal. Drum	485 lbs.
275 Gal. Tote	2485 lbs.

