



## C6 FOAM CONCENTRATES

### PLATINUM PLUS C6 1-3% AR-AFFF (Model BFC-13.6)

### 1-3% ALCOHOL RESISTANT AQUEOUS FILM-FORMING FOAM CONCENTRATE

#### OVERVIEW – C6 TECHNOLOGY

The environmentally friendly Buckeye Platinum Plus C6 1%-3% AR-AFFF foam concentrate has been specifically formulated using new, short-chain C6 fluorochemicals. The Buckeye Platinum Plus C6 1%-3% AR-AFFF foam concentrate has been developed as a true 1%-3% AR-AFFF, rather than using an existing AR-AFFF formulation which results in a product with extremely high foam quality with an extended foam blanket life. This advanced C6 formulation does not contain PFOS and based on analytical testing in accordance with the goals of the US EPA 2010/15 PFOA Stewardship Program, the PFOA content is less than 10 ppb (parts per billion). As of 4 July 2020, the REACH limit is 25 ppb (parts per billion) for PFOA.

Buckeye Platinum Plus C6 1%-3% AR-AFFF is the most advanced, totally synthetic, aqueous film-forming foam concentrate designed to form a vapor suppressing aqueous film on Class B hydrocarbon type fuels or a polymeric membrane on polar solvent (water miscible) type fuels. It is intended for use at a proportioning rate of 1% (1 part AR-AFFF concentrate to 99 parts water) on Class B hydrocarbon fuels such as gasoline, kerosene, diesel and crude oil and at 3% (3 parts AR-AFFF concentrate to 97 parts water) on Class B polar solvent fuels such as ethanol, methanol and IPA.

#### FEATURES

- UL Listed.
- Can be used at a 3% proportioning rate on both Class B hydrocarbon and polar solvent fuels.
- Can be used at a 1% proportioning rate on Class B hydrocarbon fuels.
- 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 and standard water fog nozzles.
- Suitable for use with deluge or closed head foam water sprinkler systems.
- Suitable for use with high density cross linked polyethylene (HDXLPE), fiberglass or stainless-steel storage tanks.
- Buckeye Platinum Plus C6 1%-3% AR-AFFF is not compatible with galvanized pipe or fittings in an undiluted form as described in NFPA 11.

- Suitable for use with dry chemical fire extinguishing agents.

#### PROPORTIONING

Buckeye Platinum Plus C6 1%-3% AR-AFFF is designed for use with the following types of proportioning equipment:

- In-Line Eductors: portable with hose lines.
- In-Line Balanced Pressure (ILBP) and Pump Pressure Proportioning Skids.
- Bladder Tank Balanced Pressure Proportioning Systems.
- Around-the-Pump Proportioners.
- Handline with air-aspirating or non air-aspirating nozzles and fixed or portable eductors.

#### DISCHARGE DEVICES

Buckeye Platinum Plus C6 1%-3% 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 and non air-aspirating foam nozzles.
- Foam Makers for use with either floating roof storage tanks or dike/bund protection systems.

#### APPLICATIONS

Buckeye Platinum Plus C6 1%-3% AR-AFFF can be used to protect a wide range of hazardous areas such as:

- Rescue and Fire Fighting Equipment
- Storage Tanks
- Truck or Rail Loading Facilities
- Processing and Storage Facilities
- Docks and Marine Tankers



- Flammable Liquid Containment Areas
- Mobile Equipment

Foam solutions should be prevented from entering ground water, surface water, or storm drains. Disposal should be conducted in accordance with local, state, and federal regulations.

## LISTINGS AND APPROVALS

- UL 162
- ISO-9001 Registered

## FOAM PROPERTIES

Expansion ratios are dictated by the type of discharge device, flow rate, and discharge pressure.

Typical Expansion Ratios:

Aspirating Type Discharge Devices	5:1 to 10:1
Non-Aspirating Type Devices	2:1 to 4:1

## DESIGN INFORMATION

Cannot be used in subsurface applications with Polar Solvent type fuels.

## TYPICAL PROPERTIES AT 77°F (25°C)

Appearance	Very Light Brown
Specific gravity	1.015 - 1.055
pH	7.0 - 8.0
Viscosity	2500 - 3500 cps

## APPLICATION RATES

Recommend application rate on Class B Hydrocarbon type fuels is 0.10 gpm/ft<sup>2</sup> and on polar solvent type fuels is 0.15 gpm/ft<sup>2</sup>. The recommended minimum application rates for the following specific polar solvent type fuels are:

IPA	0.15 gpm/ft <sup>2</sup>
METHANOL	0.10 gpm/ ft <sup>2</sup>
ETHANOL	0.10 gpm/ft <sup>2</sup>
ACETONE	0.14 gpm/ft <sup>2</sup>
METHYL ETHYL KETONE	0.10 gpm/ft <sup>2</sup>
ETHYLACETATE	0.10 gpm/ft <sup>2</sup>

Contact the Buckeye Fire Equipment Company Engineering Support Group for specific application rates.

## ENVIROMENTAL INFORMATION

Buckeye Platinum Plus C6 1%-3% AR-AFFF does not contain PFOS.

## STORAGE, SHELF LIFE, AND TESTING

If kept in the original container and stored within the temperature range of 35°F - 120°F (2°C - 49°C), a shelf life of more than 20 years can be expected. If it is stored in an atmospheric type foam concentrate storage tank, limit the air space above the surface of the concentrate and place a thin layer of mineral oil on the surface of the foam concentrate to minimize any effect from evaporation.

Annual testing of fire-fighting foam is recommended by the National Fire Protection Association (NFPA).

## ORDERING INFORMATION

Buckeye Platinum Plus C6 1%-3% AR-AFFF is available in 5-gallon plastic pails, 55-gallon plastic drums, or 275-gallon tote containers.

Part No. 56310	5 Gallon Pail (19 L)
Part No. 56315	55 Gallon Drum (208 L)
Part No. 56320	275 Gallon Tote (1041 L)

## SHIPPING WEIGHTS

5 Gallon Pail	45 lbs. (20 Kg)
55 Gallon Drum	500 lbs. (227 Kg)
275 Gallon Tote	2485 lbs. (1127 Kg)

For bulk orders consult your account representative.

Safety Data Sheets (SDS) are available at [www.buckeyefire.com](http://www.buckeyefire.com).

\*Foam concentrate tested using current analytical method with PFOA reporting limit of 10 ppb.

