



C6 FOAM CONCENTRATES

PLATINUM PLUS C6 6% MS-AFFF (Model BFC-6.6MS)

6% MILITARY SPECIFICATION AQUEOUS FILM-FORMING FOAM CONCENTRATE

OVERVIEW – C6 TECHNOLOGY

The environmentally friendly Buckeye Platinum Plus C6 6% MS-AFFF foam concentrate has been specifically formulated using new, short-chain C6 fluorochemicals. 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 6% MS-AFFF is an advanced, totally synthetic, aqueous film-forming foam concentrate, designed to comply with US MIL-F-24385. A vapor suppressing aqueous film is formed by the foam solution draining from the expanded foam blanket. It is intended for use at a proportioning rate of 6% (6 parts AFFF concentrate to 94 parts water) on Class B hydrocarbon type fuels such as gasoline, kerosene and diesel. Buckeye Platinum Plus C6 6% MS-AFFF is not intended for use on fuels that are polar solvents (water miscible) such as alcohols, ketones, or esters.

FEATURES

- 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.
- Suitable for use with high density cross linked polyethylene, fiberglass or stainless-steel storage tanks.
- Buckeye Platinum Plus C6 6% MS-AFFF is not compatible with galvanized pipe or fittings in an undiluted form.
- Suitable for use with dry chemical fire extinguishing agents.
- UL recommended application rate on Class B hydrocarbon type fuels is 0.10 gpm/ft² for hoseline and/or monitor applications.
- Conforms to all performance and compatibility requirements of the US Military specifications MIL-F-24385 latest amendment.

PROPORTIONING

Buckeye Platinum Plus C6 6% 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 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 6% 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 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 6% MS-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



LISTINGS AND APPROVALS

- UL 162
- U.S. Military Specification MIL-F-24385, Latest Amendment
- ISO-9001 Registered

FOAM PROPERTIES

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

Typical Extension Ratios:

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

TYPICAL PROPERTIES AT 77°F (25°C)

Appearance	Very Light Brown
Specific gravity	1.010 – 1.020
pH	7.0 - 8.0
Viscosity	2.0 – 3.0 cps

COMPATIBILITY

Buckeye Platinum Plus C6 6% MS-AFFF is compatible with any other 6% AFFF manufactured in accordance with and conforming to all performance requirements of U.S. Mil-F-24385 latest amendment or any preceding version of this specification.

ENVIROMENTAL INFORMATION

Buckeye Platinum Plus C6 6% MS-AFFF does not contain PFOS.

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.

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 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 6% MS-AFFF is available in 5 gallon plastic pails, 55 gallon plastic drums, or 275 gallon tote containers.

Part No. 56625	5 Gallon Pail (19 L)
Part No. 56630	55 Gallon Drum (208 L)
Part No. 56635	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.

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

