Military Specification AFFF Foam Concentrate C301MS & C601MS

Chemguard 3% and 6% MS-AFFF's are specially formulated; synthetic, aqueous film forming foam concentrates. A vapor suppressing aqueous film is formed by the foam solution draining from the expanded foam blanket. These foams are intended for use at a proportioning rate for C301MS is 3% (3 parts concentrate to 97 parts water) for C601MS is 6% (6 parts concentrate to 94 parts water) on Class B hydrocarbon type fuels such as gasoline, kerosene, diesel, etc. The 3% and 6% MS-AFFF concentrates are not intended for use on fuels, which are polar solvent/water miscible such as alcohols, ketones, esters, etc.

FEATURES

- U.L. Listed, Foam Liquid Concentrates
- U.L. recommended application rate on hydrocarbon type fuels is .10/gpm ft.^{2}
- Listed on the QPL (Qualified Products List) for MIL-F-24385F. Subsequently these products conform to all performance and compatibility requirements.
- Military products are characterized by extinguishment speed
- Suitable for use with fresh or salt water
- Excellent wetting characteristics when used in combating Class "A" fuel fires
- Suitable for use with both 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. Chemguard MS-AFFF concentrate is not compatible with galvanized pipe or fittings in an undiluted form.
- Suitable for use with siliconized dry chemical extinguishing agents

PROPORTIONING

- Fixed or portable in-line eductors
- In-line balanced pressure 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

- Foam Chambers
- Air-aspirating and non air-aspirating sprinkler heads 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 (hydrocarbon type fuels only)

APPLICATIONS

- Crash Fire Rescue
- Storage Tanks(non-polar solvent fuels only)
- Truck/Rail Loading or Unloading Facilities
- Processing/Storage Facilities
- Docks/Marine Tankers
- Flammable Liquid Containment Areas
- Mobile Equipment

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DATA SHEET #D10D03018
REVISION: 09/2005

FOAMING PROPERTIES

Aspirating type discharge devices typically generate expansion ratios between 6-10 to 1 when 3% or 6% 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 77ºF (25ºC)

C301 3% MS-AFFF

Appearance……..Clear Slightly Yellow
Specific Gravity……..1.079
Ph……..7.9
Viscosity……..7 cps

C601 6% MS-AFFF

Appearance……..Clear Slightly Yellow
Specific Gravity……..1.060
pH……7.9
Viscosity……..5 cps

COMPATIBILITY

Chemguard 3% and 6% MS-AFFF are compatible with any other comparable AFFF manufactured in accordance with and conforming to all performance requirements of U.S. Military Spec Mil-F-24385F or any preceding version of this specification.

ENVIRONMENTAL IMPACT

Chemguard 3% and 6% MS-AFFF is biodegradable, low in toxicity and can be treated in sewage treatment plants. Please refer to Chemguard Technical Bulletin regarding foam products and the environment.

STORAGE

If kept in the original unopened and airtight Chemguard supplied container and stored within the temperature range of 35ºF - 120ºF (2ºC - 49ºC) a shelf life of between 20-25 years can be expected. When stored in other than the manufacturers supplied container, please check with Chemguard for storage guidelines.

ORDERING INFORMATION & WEIGHT

3% MS-AFFF

Part No:	Container	Weight
C301MSP	5-Gallon Pail / 19 Liters	47 lbs.
C301MSD	55-Gallon Drum / 208 Liters	520 lbs.
C301MSBD	330-Gallon Tote / 1249 Liters	3120 lbs.

6% MS-AFFF

Part No:	Container	Weight
C601MSP	5-Gallon Pail / 19 Liters	47 lbs.
C601MSD	55-Gallon Drum / 208 Liters	510 lbs.
C601MSBD	330-Gallon Tote / 1249 Liters	3120 lbs.

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