



Description

CHEMGUARD 3% AFFF Military Spec is a specially formulated synthetic aqueous film forming foam concentrate. A vapor suppressing aqueous film is formed by the foam solution draining from the expanded foam blanket. This foam is intended for use at a proportioning rate of 3% (3 parts concentrate to 97 parts water) on Class B hydrocarbon type fuels such as gasoline, kerosene, diesel, etc. AFFF type concentrates are not intended for use on fuels, which are polar solvent/water miscible such as alcohols, ketones, esters, etc.

TYPICAL PROPERTIES AT 77 °F (25 °C)

| | |
|------------------|-----------------------|
| Appearance | Clear Slightly Yellow |
| Specific Gravity | 1.08 |
| Ph | 7.9 |
| Viscosity | 7 cps |

Features

- 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

Listings and Approvals

- U.L. Listed, Foam Liquid Concentrates
- U.L. recommended application rate on hydrocarbon type fuels is .10/gpm ft.²
- FM Approved
- Both are listed on the QPL (Qualified Products List) for MIL-F-24385F. Subsequently these products conform to all performance and compatibility requirements.

Application

- 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

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)

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

Performance

FOAMING PROPERTIES

Aspirating type discharge devices typically generate expansion ratios between 6-10 to 1 when 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.

COMPATIBILITY

CHEMGUARD 3% AFFF Military Spec. is 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.

STORAGE

If kept in the original unopened and airtight CHEMGUARD supplied container and stored within the temperature range of 35 °F-120 °F (2 °C to 49 °C) 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

| Part No: | Container | Weight |
|----------|------------------|---------|
| C301MSP | 5 gal (19 L) | 47 lb |
| C301MSD | 55 gal (208 L) | 520 lb |
| C301MSBD | 330 gal (1249 L) | 3120 lb |

Environmental Impact

CHEMGUARD C301 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.