

## Description

Chemguard 3% AFFF 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. It is intended for use at a proportioning rate of 3% (3 parts AFFF concentrate to 97 parts water) on Class B hydrocarbon type fuels such as gasoline, kerosene, diesel, etc. Chemguard 3% AFFF is 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<sup>2</sup>.
- U.L. Canada Listed
- FM Approved
- Performance to ICAO, Doc. #9137, Part 1, Chapter 8, Level "B" verified
- 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 3% AFFF 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 sub- surface base injection system (hydrocarbon type fuels only)

## Applications

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

## Foaming Properties

Aspirating type discharge devices typically generate expansion ratios between 6-10 to 1 when 3% 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 77°F (25°C)

|                  |                       |
|------------------|-----------------------|
| Appearance       | Clear Slightly Yellow |
| Specific Gravity | 1.020                 |
| pH               | 7.7                   |
| Viscosity        | 1.5 cps               |

### Environmental Impact

Chemguard 3% 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 35°F - 120°F (2°C - 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 & Weight

| Part No: | Container                     | Weight    |
|----------|-------------------------------|-----------|
| C303P    | 5-Gallon Pail / 19 Liters     | 45 lbs.   |
| C303D    | 55-Gallon Drum / 208 Liters   | 495 lbs.  |
| C303BD   | 330-Gallon Tote / 1249 Liters | 3000 lbs. |