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## Synthetic AFFF Foam 1% AFFF Part No. C-103

### DESCRIPTION

Chemguard 1% 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 1% (1 part AFFF concentrate to 99 parts water) on Class B hydrocarbon type fuels such as gasoline, kerosene, diesel, etc. Chemguard 1% 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
- Suitable for use with either fresh or salt water
- Excellent wetting characteristics when used in combating Class A fuel 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
- If inadvertently frozen, thawing will render product completely serviceable again
- Suitable for use with carbon steel, fiberglass, polyethylene or stainless steel. Chemguard 1% AFFF is not compatible with galvanized pipe or fittings in an undiluted form
- Suitable for use with dry chemical extinguishing agents
- U.L. recommended application rate on

hydrocarbon type fuels is .10/gpm ft<sup>2</sup>.

### PROPORTIONING

Chemguard 1% AFFF is designed for use with the following types of proportioning equipment.

- Fixed or portable in-line eductors
- In-line balanced pressure and pump pressure proportioning skid
- Bladder tank balanced pressure proportioning system
- Around the pump proportioners
- Handline, air-aspirating nozzles with fixed eductor pickup tube

### DISCHARGE DEVICES

Chemguard 1% AFFF is suitable for use with the following 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

Chemguard 1% AFFF will provide quality protection for a wide range of hazardous areas such as:

- 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

## PERFORMANCE

To ensure the fire fighting performance requirements required in today's environment, Chemguard fire tests their 1% AFFF to the fire performance requirements of:

U.L. 162

UK. Ministry of Defense 42-24

## FOAM PROPERTIES

Aspirating type discharge devices typically generate expansion ratios between 6-10 to 1 when 1% 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 device, flow rate and discharge pressure.

## TYPICAL PROPERTIES AT 77°F (25°C)

Appearance	Clear	Slightly Yellow
Specific Gravity		1.040
pH		7.5
Viscosity @ 20°C		6.0 cps

## ENVIRONMENTAL IMPACT

Chemguard 1% 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 manufacturer's 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 manufacturer's supplied container, please check with Chemguard for storage guidelines.

## ORDERING INFORMATION

Chemguard 1% AFFF is available in 5 gallon plastic pails, 55 gallon plastic drums, 330 gallon plastic bulk drums or can be shipped in bulk.

Part No. C-103P	5 Gal. Pail (19 L)
Part No. C-103D	55 Gal. Drum (208 L)
Part No. C-103BD	330 Gal. Bulk Drum (1249 L)

## SHIPPING WEIGHT

5 Gal. Pail	45 lbs.
55 Gal. Drum	495 lbs.
330 Gal. Bulk Drum	3000 lbs.