



# 3% LT AR-AFFF Foam Concentrate C33LT

Chemguard 3% AR-AFFF Low Temperature is a specially formulated, aqueous film forming, free flowing, viscous foam concentrate. It forms a vapor suppressing aqueous film on hydrocarbon type fuels or a polymeric membrane on polar solvent/water miscible type fuels. C33LT is intended for use at a proportioning rate of 3% (3 parts C33LT concentrate to 97 parts water) on hydrocarbon fuels such as gasoline, kerosene, diesel, etc., and on polar solvent/water miscible fuels such as alcohols, ketones, esters, etc.

## FEATURES

- UL Listed, Foam Liquid Concentrate
- Suitable for use on hydrocarbon or polar solvent type fuels
- Used at a 3% proportioning rate on both hydrocarbon and polar solvent fuels
- Use with either fresh or salt water
- Excellent wetting characteristics when used in combating Class "A" fuel type fires
- Suitable for use with deluge and closed head foam water sprinkler systems
- Suitable for use with carbon steel, fiberglass, polyethylene or stainless steel. Ultraguard 3% AR-AFFF Low Temperature is not compatible with galvanized pipe or fittings in an undiluted form.
- Suitable for use with both air-aspirating foam and standard water fog nozzles

## 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.

## FOAMING PROPERTIES

Aspirating type discharge devices typically generate expansion ratios between 6-10 to 1 when 3% AR-AFFF Low temperature 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.

## DESIGN INFORMATION

Cannot be used in sub-surface applications with polar solvent type fuels.

## TYPICAL PROPERTIES AT 77°F (25°C)

Appearance.....Off White Gel-Like Liquid  
Specific gravity.....1.090  
pH.....7.1  
Viscosity.....4500 cps\*

\*Brookfield<sup>#</sup>4 Spindle at 30 rpm

## APPLICATION RATES

Recommended Type II (Foam Chamber) application rate on hydrocarbon type fuels is .10 gpm/ft<sup>2</sup> and on polar solvent type fuels is .15 gpm/ft<sup>2</sup>. On the following specific polar solvent type fuels these are the recommended minimum Type II application rates.

IPA	0.16 gpm/ft <sup>2</sup>
METHANOL	0.12 gpm/ft <sup>2</sup>
ETHANOL	0.13 gpm/ft <sup>2</sup>
ACETONE	0.16 gpm/ft <sup>2</sup>
METHYL ETHYL KETONE	0.12 gpm/ft <sup>2</sup>
ETHYL ACETATE	0.12 gpm/ft <sup>2</sup>
MTBE	0.16 gpm/ft <sup>2</sup>

## CHEM GUARD

204 S. 6<sup>th</sup> Ave • Mansfield, Tx 76063 • (817) 473-9964 • FAX (817) 473-0606

[www.chemguard.com](http://www.chemguard.com)

### **ENVIRONMENTAL IMPACT**

Chemguard 3% AR-AFFF Low temperature 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 0°F - 120°F (-18°C -49°C); a shelf life of between 20-25 years can be expected. If the AR-AFFF is to be stored in an atmospheric type foam concentrate storage tank whether on mobile apparatus or stationary, limit the airspace above the surface of the concentrate where possible and place a thin layer of quality mineral oil on the surface of the foam concentrate to minimize any effect from evaporation.

### **ORDERING INFORMATION & WEIGHTS**

<b>Part No:</b>	<b>Container</b>	<b>Weight</b>
C33LTP	5-Gallon Pail / 19 Liters	48 lbs.
C33LTD	55-Gallon Drum / 208 Liters	524 lbs.
C33LTBD	330-Gallon Tote / 1249 Liters	3200 lbs.