



204 S. 6th Avenue
Mansfield, Texas, USA 76063
817-473-9964
817-473-0606 fax
www.chemguard.com



Synthetic AR-AFFF Foam 3%-6% AR-AFFF Part No. C-361

DESCRIPTION

Chemguard 3%-6% AR-AFFF 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. It is intended for use at a proportioning rate of 3% (3 parts AR-AFFF concentrate to 97 parts water) on hydrocarbon fuels such as gasoline, kerosene, diesel etc. Chemguard 3%-6% AR-AFFF is intended for use at a 6% proportioning rate (6 parts AR-AFFF concentrate to 94 parts water) on polar solvent/ water miscible fuels such as alcohols, ketones, esters, etc.

FEATURES

- U. L. and U.L.C Listed, Foam Liquid Concentrates
- Suitable for use with either fresh or salt water
- Excellent wetting characteristics when used in combating Class A fuel fires
- Suitable for use with deluge and closed head foam water sprinkler systems
- Suitable for use with carbon steel, fiberglass, polyethylene or stainless steel. Chemguard 3%-6% AR-AFFF is not compatible with galvanized pipe or fittings in an undiluted form.
- Suitable for use with dry chemical extinguishing agents
- Suitable for use on hydrocarbon or polar solvent type fuels

- Suitable for use with both air-aspirating foam and standard water fog nozzles
- U.L. Listed for sub-surface injection

PROPORTIONING

Chemguard 3%-6% AR-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 systems
- Around the pump proportioners
- Handline, air-aspirating nozzles with fixed eductor pickup tube

DISCHARGE DEVICES

Chemguard 3%-6% AR-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)

FOAMING PROPERTIES

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

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	1.010 g/ml
pH	7.7
Viscosity	2200 cps

APPLICATION RATES

Recommend application rate on hydrocarbon type fuels is .10 gpm/ft². and on polar solvent type fuels is .15 gpm/ft². The recommended minimum application rates for the following specific polar solvent type fuels are:

IPA	0.15 gpm/ft ²
METHANOL	0.12 gpm/ft ²
ETHANOL	0.13 gpm/ft ²
ACETONE	0.14 gpm/ft ²
METHYL ETHYL KETONE	0.13 gpm/ft ²
ETHYL ACETATE	0.13 gpm/ft ²
MTBE	0.15 gpm/ft ²

ENVIRONMENTAL IMPACT

Chemguard 3%-6% AR-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. If the AR-AFFF is to be stored in an atmospheric type foam concentrate storage tank, whether on mobile apparatus or stationary, limit the air space above the surface of the concentrate where possible and place a layer of quality mineral oil on the surface of the foam concentrate to minimize any effect from evaporation.

ORDERING INFORMATION

Chemguard 3%-6% AR-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-361P	5 gal. Pail (19 L)
Part No. C-361D	55 Gal. Drum (208 L)
Part No. C-361BD	330 Gal. Bulk Drum (1249 L)

SHIPPING WEIGHT

5 Gal. Pail	44 lbs.
55 Gal. Drum	485 lbs.
330 Gal. Bulk Drum	2970 lbs.