



**CHEMGUARD** INC.

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## DESCRIPTION

**ISS 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.

**ISS 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. Listed.
- UL Listed for sub-surface injection applications
- 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 or closed head foam water sprinkler systems.
- Suitable for use with carbon steel, fiberglass, polyethylene or stainless steel.

**ISS 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.

## PROPORTIONING

**ISS 3%-6% AR-AFFF** is designed for use with the following types of proportioning equipment:

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

## DISCHARGE DEVICES

**ISS 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 subsurface base injection system (hydrocarbon type fuels only).

**3% X 6% AR - AFFF # EGY- C361**

## APPLICATION RATES

Recommend application rate on hydrocarbon type fuels is 0.10 gpm/ft<sup>2</sup>. and on polar solvent type fuels is 0.15 gpm/ft<sup>2</sup>. The recommended minimum application rates for the following specific polar solvent type fuels are:

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

## DESIGN INFORMATION

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

## FOAM PROPERTIES

Aspirating type discharge devices will 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.

## ENVIRONMENTAL IMPACT

**ISS 3%-6% AR-AFFF** is biodegradable, low in toxicity and can be treated in sewage treatment plants. Please refer to the Technical Bulletin regarding foam products and the environment.

## TYPICAL PROPERTIES AT 25°C (77° F)

Appearance:	Off-White Gel –Like Liquid
Specific Gravity:	1.016 ± 0.01 g/ml
pH:	7.0 ± 0.5
Viscosity:	2500 ± 200 cps.

## STORAGE

If kept in the original unopened and airtight **ISS** supplied container and stored within the temperature range of 35°F - 120°F (1.7°C - 49°C) , a shelf life of between 20-25 years can be expected.

When stored in other than the anufacturer's supplied container, please check with **ISS** for storage guide lines.

## ORDERING INFORMATION

Part No. **EGY-C361** is available in 20 Liter Pails, 200 Liter Drums and 1000 Liter Bulk Drums.

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الشركة الدولية لأنظمة الأمان والسلامة

المصنع : مدينة العبور المنطقة الصناعية  
بلوك : ١٣٠٤٠ - قطعة ٢٥

الإدارة : ٤٩ عباس العقاد - مدينة نصر - القاهرة

تليفون : ٢٦٠٢٨٠٨ - ٤٠١٧٤٣٠ فاكس : ٢٦٢٧٣١٧

