



## Novacool AFFF-AR 3% Product Description

Novacool 3% 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. Novacool 3% AR-AFFF is intended for use at a proportioning rate of 3% on hydrocarbon fuels such as gasoline, kerosene, diesel, etc., and on polar solvent/water miscible fuels such as alcohols, ketones, esters, etc.

- U. L. Listed, Foam Liquid Concentrate
- Used at a 3% proportioning rate on both hydrocarbon and polar solvent fuels
- Suitable for use with either fresh, brackish or salt water
- Suitable for use with deluge and closed head foam water sprinkler systems
- Suitable for use with fiberglass, polyethylene or stainless steel.
- Suitable for use with dry chemical extinguishing agents.
- Suitable for use with both air-aspirating foam and standard water fog nozzles
- 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
- Air-aspirating and non air-aspirating sprinkler heads or spray nozzles
- Standard water fog nozzles for handlines and monitors
- Air-aspirating foam nozzles
- High back pressure foam makers for sub surface base injection system (hydrocarbon type fuels only, not suitable for use in sub-surface applications with polar solvent type fuels)

Aspirating type discharge devices typically generate expansion ratios between 9-12 to 1 when Novacool 3% AR-AFFF is mixed with water at the correct ratio. Non-aspirating type devices will typically generate expansion ratios of between 2-5 to 1. Expansion ratios are dictated by the type of discharge device, flow rate and discharge pressure.

Appearance: Light brown liquid, faintly aromatic

Boiling point 100oC.

Freezing point 30oF. / -1oC.

Specific Gravity 1.053 g/ml

pH range 6.8-7.5

Typical pH 7.0

Viscosity 3000 cps average

Recommended Top Side application rates on hydrocarbon type fuels is 0.10 gpm/ft<sup>2</sup> and 0.15 gpm/ft<sup>2</sup> on polar solvent type fuels.

On the following specific polar solvent type fuel groups these are the recommended minimum application rates:

IPA 0.15 gpm/ft<sup>2</sup>

Methanol 0.10 gpm/ft<sup>2</sup>

Ethanol 0.10 gpm/ft<sup>2</sup>

Methyl Ethyl Ketone 0.13 gpm/ft<sup>2</sup>

Ethyl Acetate 0.15 gpm/ft<sup>2</sup>

MTBE 0.15 gpm/ft<sup>2</sup>

If kept in the original unopened and airtight Baum's Castorine Novacool supplied container and stored within the temperature range of 32°F-120°F (0°C-49°C), a shelf life of between 10-15 years can be expected. If the Novacool AR 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 whenever possible.

Available in:

5-gallon pail

55-gallon drum

265-gallon tote

