

# 1% X 3% AR-AFFF

## ALCOHOL RESISTANT AQUEOUS FILM-FORMING FOAM CONCENTRATE

### DESCRIPTION

DWIGHT'S SIGNATURE SERIES™ 1% x 3% AR-AFFF is UL approved and designed to be the most effective foam on fuel in depth type fire as demonstrated by performance on the Dwight's Plunge test. The plunge test was developed by Dwight's in the late 80's to be the most rigorous fire test protocol by subjecting foam concentrates to direct impingement on the fuel surface in a forceful application testing the foam's ability to extinguish, resist fuel pick-up, and provide superior burn-back resistance.

The Signature Series Foam is the cleanest AR-AFFF on the market today with the most versatile and effective firefighting foam capabilities for emergency response scenarios and is proportioned at 1% for hydrocarbon fuel fires and 3% for polar solvent fuel fires. DWIGHT'S SIGNATURE SERIES 1% x 3% AR-AFFF is a mixture of water, hydrocarbon surfactants, solvents, C6 fluorosurfactants and fluoropolymers.

DWIGHT'S SIGNATURE SERIES 1% x 3% AR-AFFF can be used with standard proportioning equipment, foam discharge devices, in-line foam proportioners, and self educating nozzles.

### APPLICATIONS

DWIGHT'S SIGNATURE SERIES™ 1% x 3% AR-AFFF is used in emergency response situations, fire suppression systems, and manual applications to fight a broad range of Class B flammable liquid fires including hydrocarbon fuels such as gasoline and diesel, and on polar solvent fuels such as ketones and alcohols. Typical applications include storage tanks, loading racks, docks, process areas, and warehouses. It is an excellent vapor suppressor for flammable liquid spills.

### APPROVAL CERTIFICATIONS

DWIGHT'S SIGNATURE SERIES 1% x 3% AR-AFFF foam concentrate is UL 162 Listed and EN1568-3:2008 (Class 1A), EN1568-4:2008 (Class 1A) Approved.

### TYPICAL PHYSICAL PROPERTIES (Concentrate)

Specific gravity @ 68° F (20° C)	1.06
pH	7.0 ± .05
Viscosity	1900 cPs
Lowest temperature for use	20° F
Freezing point	14° F

### SHELF LIFE, INSPECTION AND TESTING

The shelf life of any foam concentrate is maximized by proper storage conditions and maintenance. Factors affecting shelf life are wide temperature changes, extreme high or low temperatures, evaporation, dilution, and contamination by foreign materials. Properly stored DWIGHT'S SIGNATURE SERIES 1% x 3% AR-AFFF foam concentrates should have no significant loss of firefighting performance for 20+ years. However, the National Fire Protection Association (NFPA) recommends annual testing of all firefighting foams.

### STORAGE AND HANDLING

The concentrate should be stored at temperatures between 20° F (-6° C) and 122° F (+50° C), preferably in the original containers, approved bladder tanks, stainless steel, high density polyethylene, fiberglass or epoxy lined tanks. Concentrate piping acceptable materials of construction include stainless steel (either 304 or 316), some plastic piping including fiberglass and PVC, red brass, and black iron as long as the system is completely flooded eliminating the air/foam concentrate/carbon steel interface. Avoid permanent contact with carbon steel, iron, some copper alloys, & aluminum when the piping material and concentrate will be exposed to air. Galvanized piping is not recommended for AFFF piping systems. Foam concentrates are subject to evaporation, which accelerates when the product is exposed to air. Storage tanks should be sealed and fitted with a pressure vacuum vent to prevent free exchange of air.

**FOR MORE INFORMATION VISIT [www.SignatureSeriesFoam.com](http://www.SignatureSeriesFoam.com)**

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### HANDLING PRECAUTIONS

- FOR DETAILED SAFETY INFORMATION, please refer to the SDS.
- **Precautionary Measure and First Aid:** Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary contact and removal of the material from the eyes, skin and clothing.
- **Eye Protection:** As a good industrial practice, the use of chemical goggles is recommended. If in the eyes, flush immediately with water. Eye flushing equipment should also be available.
- **Skin Protection:** Wear protective gloves when handling concentrate to minimize skin contact. Wash hands and contaminated skin after handling.
- **Respiratory Protection:** None required. The location for public viewing of the SDS is on [www.SignatureSeriesFoam.com](http://www.SignatureSeriesFoam.com).

### PACKAGING

#### ORDERING INFORMATION (LBS./kg.)

	LBS	KG	PART #
5 gallon pails (20 litres)	44	20	500-0005-00-0
55 gallon drums (200 litres)	486	221	500-0055-00-0
265 gallon tote (1,000 litres)	2343	1063	500-0265-00-0

Approximate weight



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**FOR MORE INFORMATION VISIT [www.SignatureSeriesFoam.com](http://www.SignatureSeriesFoam.com)**

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