

# 3x3

## AR-AFFF

LOW VISCOSITY



### TYPICAL PHYSICAL PROPERTIES (Concentrate)

Specific gravity @ 68° F (20° C)	1.08
pH	8.5±.05
Viscosity	10 cps
Lowest temperature for use	0° F
Freezing point	-13° F

### TYPICAL PROPERTIES (Solution)

Dilution rate	3%
Surface tension at @ 68° F (20° C)	17.0 ± 0.5
Interfacial tension with cyclohexane at @ 68° F (20° C)	23.5 ± 0.5
25% drain time (minutes)	2:15

### PACKAGING

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

	LBS	KG	PRODUCT #
5 gallon pails (19 liters)	45	20	10004000
55 gallon drums (208 liters)	495	225	10003999
265 gallon reusable tote tank (984 liters)	2387	1083	10003998

Approximate weight

### DESCRIPTION

Phos-Chek® 3x3 AR-AFFF Low Viscosity (Alcohol-Resistant Aqueous Film Forming Foam) is a mixture of water, hydrocarbon surfactants, solvents, C6 fluorosurfactants and fluoropolymers. The product is a 3% concentrate proportioned solution for use on both hydrocarbon and polar solvent fires. Phos-Chek 3x3 AR-AFFF Low Viscosity foam is designed for rapid control and knockdown by producing a thin aqueous film on hydrocarbon fuels or a polymer membrane on polar solvent fuels that minimize vapor release, a foam blanket that separates the fuel from the air, and continual draining of water from the foam blanket provides cooling at the fuel surface.

Foam system designers are continually struggling with the limitations of equipment placement because of the higher viscosity of conventional alcohol resistant aqueous film forming foams and their inherent flow problems. Phos-Chek 3x3 AR-AFFF low viscosity (~10 cp) is ideally suited for foam systems with long distances between the foam storage tank and proportioning device.



For more information, contact any of our worldwide Perimeter Solutions Fire Safety offices or visit us at [www.Phos-Chek.com](http://www.Phos-Chek.com) or [Perimeter-Solutions.com](http://Perimeter-Solutions.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.phos-chek.com](http://www.phos-chek.com)

### APPLICATIONS

Phos-Chek 3x3 AR-AFFF Low Viscosity is used in 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, warehouses, and is an excellent vapor suppressor for flammable liquid spills.

### 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 Phos-Chek AR-AFFF Class B 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 0°F (-18°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.

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**APPROVAL CERTIFICATIONS**  
UL 162, EN 1568-3 (Class IB)  
and EN 1568-4 (Class IB)