

## PHOS-CHEK® 3x3% AR-AFFF

AR-AFFF  
ALCOHOL RESISTANT –  
AQUEOUS FILM  
FORMING FOAM CONCENTRATE



### DESCRIPTION

**Phos-Chek® 3x3% AR-AFFF** foam concentrate is a mixture of water, hydrocarbon surfactants, solvents, C6 fluorosurfactants and fluoropolymers. The product is proportioned at 3% for both hydrocarbon and polar solvent fuel fires. PHOS-CHEK 3x3% AR-AFFF is UL listed and FM approved for both gentle and forceful applications when diluted with fresh, salt, and brackish water. PHOS-CHEK 3x3% AR-AFFF is versatile foam for use in both fixed foam systems and emergency response. It is the choice by many municipal and industrial fire departments. PHOS-CHEK 3x3% AR-AFFF can be used with standard proportioning equipment, foam discharge devices, bladder tank/proportioner systems, foam chambers, foam makers, sprinklers, in-line foam proportioners, and self-inducting type nozzles.

### APPLICATIONS

PHOS-CHEK 3x3% AR-AFFF 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.

### APPROVAL CERTIFICATIONS

UL 162 Listed, EN 1568-3:2008 (Class IA) and EN 1568-4:2008 (Class IB) Approved. This concentrate is only FM Approved in conjunction with the specific proportioning and discharge devices as shown in the Approval Guide ([www.ApprovalGuide.com](http://www.ApprovalGuide.com)).



### TYPICAL PHYSICAL PROPERTIES [AT 77 °F (25 °C)]

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Appearance                         | Light yellow non-Newtonian liquid |
| Specific Gravity                   | 1.000 – 1.040                     |
| pH                                 | 7.0 ± 0.5                         |
| Viscosity (LV-4 Spindle @ 30 RPM)* | 2500 ± 400 cP                     |
| Refractive Index                   | 1.3500 – 1.3600                   |
| Lowest Temperature for Use         | 35 °F (1.7 °C)                    |
| Freezing Point                     | 25 °F (-4 °C)                     |

### VISCOSITY

|                  |                        |               |
|------------------|------------------------|---------------|
| @ 35 °F (1.7 °C) | LV-4 Spindle @ 30 RPM* | 2920 ± 500 cP |
| @ 68 °F (20 °C)  | LV-4 Spindle @ 30 RPM* | 2800 ± 500 cP |

\*Brookfield LVT

### STORAGE AND HANDLING

The concentrate should be stored at temperatures between 35 °F (1.7 °C) and 120 °F (49 °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 should not be used in direct contact with the foam concentrate.

\*\*EN APPROVAL: 35 °F (1.7 °C) and 122 °F (50 °C)

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## AR-AFFF ALCOHOL RESISTANT – AQUEOUS FILM FORMING FOAM CONCENTRATE

### 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 fluctuation, evaporation, dilution, and contamination by foreign materials. Properly stored PHOS-CHEK Class B 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.



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.

### HANDLING PRECAUTIONS

- For DETAILED SAFETY INFORMATION, please refer to the SDS.
- **Precautionary Measures:** 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 with plenty of water.
- **Skin Protection:** Wear protective gloves when handling concentrate to minimize skin contact. Wash hands and contaminated skin after handling.
- **Respiratory Protection:** None required.
- For complete SDS, visit [perimeter-solutions.com](http://perimeter-solutions.com)

### PACKAGING

| ORDERING INFORMATION           |      |      |          |
|--------------------------------|------|------|----------|
| PHOS-CHEK 3X3% AR-AFFF         | lb.* | kg.* | Part #   |
| 5 Gallon Pail (20 litres)      | 43   | 19   | 10003970 |
| 55 Gallon Drum (200 litres)    | 468  | 212  | 10003969 |
| 265 Gallon Tote (1,000 litres) | 2255 | 1023 | 10003968 |

\*Approximate shipping weight

\*Contact your local authorized PHOS-CHEK distributor or factory sales representative for additional details. [perimeter-solutions.com](http://perimeter-solutions.com)



## Solutions That Save.

#### FOR MORE INFORMATION

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