

1x3 AR-AFFF FOAM CONCENTRATE

1. DESCRIPTION. Phos-Chek 1x3 AR-AFFF (Alcohol-Resistant Aqueous Film Forming Foam) is a mixture of water, hydrocarbon surfactants, solvents, C6 fluorosurfactants and fluoropolymers. The product is a 1% x 3% concentrate that is intended to be proportioned at 1% for hydrocarbon fuel fires and at 3% for polar solvent fuel fires. This new formulation demonstrates ICL Performance Products' commitment to superior firefighting performance and environmental responsibility.

Phos-Chek 1x3 AR-AFFF 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.

2. APPLICATIONS. Phos-Chek 1x3 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 ketones and alcohols. Typical applications include storage tanks, loading racks, docks, process areas, warehouses, and is an excellent vapor suppressor for flammable liquid spills.

TYPICAL PHYSICAL PROPERTIES (Concentrate)	
Specific gravity @ 68°F (20° C)	1.06
pH	7.0 ± 0.5
Viscosity	1900 cps
Lowest temperature for use	20° F
Freezing point	14° F

TYPICAL PROPERTIES (Solution)	
Dilution rate	1%/3%
Surface tension at @ 68° F (20° C)	16.0 ± 0.5
Interfacial tension with cyclohexane at @ 68° F (20° C)	4.0 ± 0.5
25% Drain Time (minutes)	3:00

3. APPROVAL CERTIFICATIONS. UL 162, EN 1568-3 (Class IA) and EN 1568-4 (Class IA), and LASTFIRE.

4. 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.

5. 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.

6. PACKAGING.

	ORDERING INFORMATION (LBS./kg.)	
	LBS.	kg.
5 gallon pails (19 liters)	44.0	20.0
55 gallon drums (208 liters)	486.0	221.0
265 gallon reusable tote tank (984 liters)	2343.0	1063.0



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HANDLING PRECAUTIONS.

- **FOR DETAILED SAFETY INFORMATION**, please refer to the MSDS.
- **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.
- For complete MSDS, visit www.phoschek.com

For more information, contact any of our worldwide ICL Fire Safety offices or visit us at www.phos-chek.com

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