

## 3% AFFF FREEZE PROTECTED CLASS B FOAM CONCENTRATE

**1. DESCRIPTION.** Phos-Chek 3% Aqueous Film Forming Foam-Freeze Protected (AFFF-FP) concentrate is a mixture of water, hydrocarbon surfactants, solvents, and C6 fluorosurfactants. This C6 based AFFF is an environmentally responsible, next generation Aqueous Film Forming Foam (AFFF) product for use on Class B hydrocarbon fuels that have low water solubility. This new formulation demonstrates ICL Performance Products' commitment to superior firefighting performance and environmental responsibility.

The pure C6 Phos-Chek 3% AFFF-FP is designed for rapid control and knockdown by producing a thin aqueous film that minimizes vapor release, a foam blanket that separates the fuel from the air, and continual draining of water from the foam blanket provides cooling to the fuel surface.

**2. APPLICATIONS.** Phos-Chek 3% AFFF-FP may be used with low expansion foam equipment (nozzles, monitors, foam chambers, etc.), non-aspirating devices (water spray nozzles and standard sprinklers) and medium expansion foam devices to fight fires involving Class B hydrocarbon fuel fires such as crude oil, aviation fuels, diesel, etc. It is not suitable for use on polar solvents or water miscible fuels such as alcohols, ketones, esters, and ethers.

TYPICAL PHYSICAL PROPERTIES (Concentrate)	
Specific gravity @ 68°F (20° C)	1.055
pH	8.0 ± 0.5
Viscosity	10 cps
Lowest temperature for use	0° F
Freezing point	~-7° F

TYPICAL PROPERTIES (Solution)	
Dilution rate	3%
Surface tension at @ 68° F (20° C)	15.8 ± 0.5
Interfacial tension with cyclohexane at @ 68° F (20° C)	3.0 ± 0.5
25% Drain Time (minutes)	2:54

**3. APPROVAL CERTIFICATIONS.** UL 162 and EN 1568-3 (Class IB) listed, Foam Liquid Concentrates

**4. STORAGE AND HANDLING.** The concentrate should be stored at temperatures between 0°F (-17°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 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)	42.5	19.3
55 gallon drums (208 liters)	467.9	212.7
265 gallon reusable tote tank (984 liters)	2254.3	1024.7



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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](http://www.phoschek.com)

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

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