

3%

AFFF MILSPEC

CLASS B FOAM CONCENTRATE



TYPICAL PHYSICAL PROPERTIES (Concentrate)

Specific gravity @ 68° F (20° C)	1.02
pH	8.1 ± .05
Viscosity	2-10 cps
Lowest temperature for use	32° F
Freezing point	24.8° F

TYPICAL PROPERTIES (Solution)

Dilution rate	3%
Surface tension at @ 68° F (20° C)	16.3 ± 0.5
Interfacial tension with cyclohexane at @ 68° F (20° C)	2.2 ± 1.0
25% drain time (minutes)	> 3:00

PACKAGING

ORDERING INFORMATION (LBS./kg.)

	LBS	KG	PRODUCT #
5 gallon pails (19 liters)	43	19	10004164
55 gallon drums (208 liters)	468	212	10004112
265 gallon reusable tote tank (984 liters)	2255	1023	10004192

Approximate weight

DESCRIPTION

Phos-Chek® 3% AFFF MilSpec (Mil-PRF-24385F(SH) with Amendment 2) foam concentrate was the first all C6 based product on the Department of Defense Qualified Product Database (QPD) – Qualified Products List (QPL). In 2016, Phos-Chek 3% AFFF MilSpec was selected by the Air Force as the product of choice on all of their Aircraft Rescue Firefighting trucks globally. The MilSpec testing protocol is the most rigorous test program for foam concentrates. The foams must pass multiple fire tests and confirm performance when diluted with both fresh and sea water. Fire performance is confirmed in both 2.6m² and 4.6m² unleaded gasoline pool fires at half strength and five times concentration. Other requirements include chemical and physical property specifications, foam quality (expansion and drain time), film formation, and sealability tests. The MilSpec test protocol also includes extensive environmental impact based on biodegradability studies like Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), and aquatic toxicity.



For more information, contact any of our worldwide Perimeter Solutions Fire Safety offices or visit us at www.Phos-Chek.com or 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

APPLICATIONS

Phos-Chek 3% AFFF MilSpec may be used with low expansion foam equipment (nozzles and monitors), 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 aviation fuels, hydraulic oil, and diesel fuels. It is not suitable for use on polar solvents or water miscible fuels such as alcohols, ketones, esters, and ethers.

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.

STORAGE AND HANDLING

The concentrate should be stored at temperatures between 30°F (-1°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.

NOTICE

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APPROVAL CERTIFICATIONS
Mil-F-24385 (QPD) and UL 162