

PHOS-CHEK® 1%

FLUORINE-FREE CLASS A/B FOAM CONCENTRATE



DESCRIPTION

The first certified fluorine-free **Class A/B firefighting foam, PHOS-CHEK® 1% fluorine-free foam concentrate** is a mixture of water and hydrocarbon surfactants. Developed for use on Class B hydrocarbon fuel fires, this organohalogen-free foam is an environmentally responsible next generation product, that demonstrates Perimeter Solutions' commitment to superior firefighting performance and environmental responsibility.

PHOS-CHEK 1% fluorine-free foam is designed for rapid control and knockdown in both gentle and forceful applications on hydrocarbon fuel fires. PHOS-CHEK 1% fluorine-free foam is an extremely effective wetting agent for use on Class A fires involving ordinary combustible materials such as wood, cloth, paper, rubber, and many plastics.

APPLICATIONS

PHOS-CHEK 1% fluorine-free foam concentrate is designed for use on Class B hydrocarbon fuel fires (gasoline, crude oil, aviation fuels, diesel, etc.) at 1% proportioning. The foam concentrate is not intended for use on Class B polar solvents or water miscible fuels, such as alcohols, ketones, esters and others. On Class A fuels, the foam concentrate is used as a wetting agent in accordance with ANSI/NFPA 18.

PHOS-CHEK 1% fluorine-free foam concentrate is compatible with conventional firefighting equipment, such as low expansion non-air aspirating and air aspirating nozzles and monitors, medium expansion foam devices and Compressed Air Foam Systems (CAFS).

WETTING AGENT APPLICATION RATES

UL/ULC Classified 0.1% for Class A fires and 0.25% for Class B Non-Water Miscible Fires

- Class A fire use, mix 0.1 part foam concentrate to 99.9 parts water.
- Class B fire use, mix 0.25 part foam concentrate to 99.75 parts water.



TYPICAL PHYSICAL PROPERTIES

Specific Gravity @ 68 °F (20 °C)	1.020 – 1.060
pH	7.0 ± 0.5
Viscosity (LV-1 Spindle @ 60 RPM)*	2 – 10 cP
Refractive Index	1.3700 – 1.3800
Lowest Temperature for Use	35 °F (-1.7 °C)
Freezing Point	23 °F (-5 °C)

*Brookfield LVT

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 1% fluorine free foam concentrates should have no significant loss of fire fighting performance for 10+ 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 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 fiber glass 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.

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

ENVIRONMENTAL INFORMATION

PHOS-CHEK foam concentrates do not contain intentionally added PFAS chemicals including PFOA and PFOS. In making this statement, Perimeter Solutions relies on information provided by its raw material suppliers and certain independent laboratory analysis conducted on the product.

CERTIFICATIONS

PHOS-CHEK manufactured products are thoroughly inspected and undergo rigorous quality control tests. These evaluations analyze the foam's physical parameters as well as the finished product's fire performance. A Certificate of Analysis (CoA) is issued with every batch.

PHOS-CHEK® 1% FLOURINE-FREE CLASS A/B foam concentrate is:

- UL 162/ULC S654 Listed, UL/ULC Classified
- Class A Wetting Agent ANSI/NFPA 18
- EN-1568-3:2018 (Class 1B) Approved
- EN1568-3:2018 @3% on Diesel (Class 1+A) Approved,
- LASTFIRE Batch Tested
- GreenScreen Certified Silver®



PACKAGING

ORDERING INFORMATION			
PHOS-CHEK 1% FLUORINE-FREE	lbs.*	kgs.*	Part #
5 Gallon Pail (20 litres)	43	19	10004067
55 Gallon Drum (200 litres)	468	212	10004066
265 Gallon Tote (1,000 litres)	2255	1023	10004067

*Approximate shipping weight

Contact your local authorized PHOS-CHEK distributor or factory sales representative for additional details. perimeter-solutions.com



Trusted. Solutions That Save.

FOR MORE INFORMATION

Contact any of our worldwide Perimeter Solutions Fire Safety offices or visit:
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