

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. Use of fluorine free foam is an option for spill fires and are typically used in lower hazard fire scenarios. 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).

PRODUCT CERTIFICATIONS

UL 162/ULC S654 Listed, UL/ULC Classified Class A Wetting Agent ANSI/NFPA 18, EN-1568-3:2008 (Class 1B) Approved.

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 20+ years. However, the National Fire Protection Association (NFPA) recommends annual testing of all firefighting foams.



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

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.

ENVIRONMENTAL INFORMATION

Unlike legacy C8 and mixed homologue based fluorinated firefighting foams (AFFF, AR-AFFF, FFFP, AR-FFFP, FP, AR-FP) which are considered to be toxic and bioaccumulative based on current regulatory criteria, PHOS-CHEK 1% fluorine free foam concentrate does not contain PFAS chemicals including, but not limited to, PFOS or PFOA. Fluorinated surfactants are used in fluorinated Class B foam concentrates. Never mix Class A and Class B foam concentrates.

Perimeter Solutions foam manufacturing process is intentionally separated between fluorinated and non-fluorinated concentrate types, thus eliminating the potential for cross contamination or residual contamination.

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

UNITED STATES
PERIMETER SOLUTIONS, LP
10667 Jersey Blvd.
Rancho Cucamonga, CA 91730
Tel: +1 800 682 3626
+1 909 983 0772
24HR: +1 909 946 7371

EMEA
PERIMETER SOLUTIONS, LP
Polígono Industrial De Baiña, Parc, 23
33682 Baiña-Mieres Asturias – Spain
Tel: +34 985 242945
24HR: +44 01202864796

ASIA PACIFIC
PERIMETER SOLUTIONS, LP
3 Charles Street
St Marys NSW 0276 – Australia
Tel: +61 2 9673 5300
24HR: +61 2 9430 6396

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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 www.phos-chek.com

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

PACKAGING

ORDERING INFORMATION

	lbs*	kgs*	PART #
5 gallon pail (20 litres), PHOS-CHEK 1% Fluorine Free	43	19	10004067
55 gallon drum (200 litres), PHOS-CHEK 1% Fluorine Free	468	212	10004066
265 gallon tote (1,000 litres), PHOS-CHEK 1% Fluorine Free	2255	1023	10004065

*Approximate shipping weight

Contact your local authorized PHOS-CHEK distributor or factory sales representative for details <https://phoschek.com/contact/>



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