

PHOS-CHEK® WD881

CLASS A FOAM CONCENTRATE



DESCRIPTION

PHOS-CHEK® WD881 Class A Foam

concentrate is specially formulated to make water more effective for firefighting. The unique combination of surfactants in PHOS-CHEK WD881 significantly reduces water's surface tension, and when mixed with air, creates a superior foam blanket that surrounds fuels with a thick layer of water. This creates a barrier between the fuel and the fire, knocking down the fire faster than water alone, allowing firefighters to see the areas of application. Making the water more effective reduces the amount of water needed to extinguish the fire, reduces water damage, and increases firefighter safety through quicker knockdown and reduced mop-up/overhaul requirements.

PHOS-CHEK WD881 is highly effective for fighting Class A fires when mixed with water at use rates of 0.1% to 1.0%. It has proven effectiveness in many applications, including Compressed Air Foam Systems (CAFS), structural firefighting, forest fire suppression and prescribed burning, mine fires, industrial Class A fires, and for extinguishing hydrocarbon spill fires.

PHOS-CHEK WD881 is one of the most concentrated Class A Foam products available today. Other products contain significant amounts of added water in the concentrate. This extra water means higher use rates will be required to achieve expected results.

PHOS-CHEK WD881 foam concentrate does not contain PFAS chemicals including, but not limited to, PFOS or PFOA. Fluorinated surfactants are used in Class B foam concentrates and are necessary to form a film on flammable liquid fires. Class B foams should not be used on Class A fires. Never mix Class A and Class B foam concentrates.



QUALIFICATIONS AND USES

PHOS-CHEK WD881 is fully tested and qualified for use by the USDA Forest Service under Specification 5100-307b for all application methods including ground engines, Canadair water scooper aircraft, single engine air tankers (SEATS), and fixed-tank helicopters. PHOS-CHEK WD881 is compatible with fresh water, sea-water, and long-term retardant. Foam characteristics are not affected by freeze-thaw.

PHOS-CHEK WD881 is a UL-listed wetting agent at 0.1% use rate for Class A fires; 0.25% use rate for Class B fires; contains NO HAZARDOUS INGREDIENTS, is readily biodegradable, and has no flash point, making it safe to use near open flames. PHOS-CHEK WD881 meets the requirements of NFPA 1150 and has superior performance for use in CAF systems.

USE RATES

- Wetting Agent: 0.1%
- Direct Attack: 0.3% to 0.5%
- Mop Up/Overhaul: 0.1% to 0.3%
- Exposure Protection: 1.0%
- Brush (Pre-Treatment): 0.7% to 1.0%

PRODUCT CHARACTERISTICS

Color/Odor	Tan liquid with a hint of orange blossom
Viscosity	41 centipoise (cP) at 75 °F (24 °C)
Density	8.55 lbs/US gallon (1.027 kg/litre)
pH	7.5 ± 0.5
Surface Tension	29.6 dynes/cm² @ 0.3%
Flash/Fire Point	None (Closed Cup), 260 °F (127 °C) Flash (Open Cup), 268 °F (131 °C) Fire (Open Cup)



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APPLICATIONS

	RETARDANT	GEL	FOAM	WATER
Indirect Attack	✓✓✓✓	✓✓	✓	
Direct/Parallel Attack	✓✓✓✓	✓✓✓	✓✓	✓
Interior Structure Attack		✓✓	✓✓✓✓	✓
Structure Protection: -Indirect Application	✓✓✓✓	✓✓✓	✓✓	✓
Structure Protection: -Direct Application		✓✓✓✓	✓✓✓	✓
Mop Up	✓✓	✓✓	✓✓✓✓	✓
Prescribed Burn Control	✓✓✓✓	✓✓✓	✓✓	✓

- ✓✓✓✓ = Superior Effectiveness
- ✓✓✓ = Excellent Effectiveness
- ✓✓ = Good Effectiveness
- ✓ = Baseline Effectiveness

PACKAGING

ORDERING INFORMATION	Shipping Weight		Catalog #
	lb.*	kg.*	Part #
WDD881			
5 Gallon Pail (19 litres)	45	19	10000278
55 Gallon Drum (208 litres)	470	212	10000279
260 Gallon Tote (985 litres)	2255	1023	10000274

*Approximate shipping weight

Additional PHOS-CHEK WD881 packaging options include 4 oz. bottles, 30 gallon drums, 330 gallon totes, semi-bulk tote bins and bulk trucks.

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

ENVIRONMENTAL INFORMATION

PHOS-CHEK WD881 Class A foam concentrate does not contain PFAS chemicals commonly found in fluorinated 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.



HANDLING PRECAUTIONS

- For detailed safety information, please refer to the SDS.
- PHOS-CHEK WD881 concentrate is moderately irritating to eyes and slightly irritating to skin. Prolonged or repeated contact with concentrate may produce skin irritation and inhalation of mists can irritate the nose and upper respiratory system.
- **Eye Protection:** Goggles are recommended when handling concentrate. If in the eyes, flush immediately with plenty of water for at least 15 seconds.
- **Skin Protection:** Wear protective clothing and chemical resistant gloves when handling concentrate. Exposed skin should be washed as soon as possible.
- **Respiratory Protection:** None required. Avoid breathing mist or vapor.
- Other precautions: Keep container closed. Use with adequate ventilation.
- These precautions and practices are similar to those used with any heavy-duty detergent.
- Water solutions of PHOS-CHEK WD881 at use levels (0.1%–1.0%) are only minimally irritating, but should be washed from skin as soon as practical, as dyeing and chapping could result from prolonged exposure.
- For complete SDS, visit perimeter-solutions.com

FOR MORE INFORMATION

Contact any of our worldwide Perimeter Solutions Fire Safety offices or visit:
www.Perimeter-Solutions.com

UNITED STATES

10667 Jersey Blvd
Rancho Cucamonga, CA 91730
Tel: +1 (920) 593-9445
salesfoamusa@perimeter-solutions.com

EMEA

Polígono Industrial de Baiña, Parcela 23
33682 Baiña-Mieres (Asturias)
Spain
Tel: +34 985 24 29 45
salesfoamea@perimeter-solutions.com

CANADA

3060 Airport Road
Kamloops, BC V2B 7X2
Canada
Tel: +1 250 544 3530
24HR: +1 800 665 2535

ASIA PACIFIC

3 Charles Street
St Marys NSW 2760
Australia
Tel: +61 2 9673 5300
salesfoamapac@perimeter-solutions.com

perimeter-solutions.com

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