

WD881



CLASS A FOAM CONCENTRATE

DESCRIPTION

PHOS-CHEK® WD881 Class A Foam concentrate is specially formulated to make water more effective for fire fighting. The unique combination of surfactants in 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, and allow fire fighters 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 fire fighter safety through quicker knockdown and reduced mop-up/overhaul requirements.

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 the most concentrated Class A foam product 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.

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

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

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. 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/cm ² @ 0.3%
Flash/Fire Point	None (Closed Cup), 260 °F (127 °C) Flash (Open Cup), 268 °F (131 °C) Fire (Open Cup)

APPLICATION	Long-Term Retardant	Gel	Class A 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

✓✓ = Good Effectiveness

✓✓✓ = Excellent Effectiveness

✓ = Baseline Effectiveness

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

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ENVIRONMENTAL INFORMATION

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.
- 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 of 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 WD881 at use levels (0.1%–1.0%) are only minimally irritating, but should be washed from skin as soon as practical, as drying and chapping could result from prolonged exposure.
- For complete SDS, visit www.phos-chek.com



PACKAGING

ORDERING INFORMATION

	lbs*	kgs*	PART #
5 gallon pail (19 litres), PHOS-CHEK WD881	45	19	10000278
55 gallon drum (208 litres), PHOS-CHEK WD881	470	212	10000279
260 gallon tote (985 litres), PHOS-CHEK WD881	2255	1023	10000274

*Approximate shipping weight

Additional 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 details <https://phoschek.com/contact/>

