

# WD881C

## CLASS A FOAM CONCENTRATE



### DESCRIPTION

PHOS-CHEK® WD881C Class A foam concentrate is specially formulated to make water more effective for firefighting. WD881C provides the same superior foam characteristics that you expect from PHOS-CHEK WD881 but disperses well, exhibits a lower viscosity, and provides improved aerial visibility when mixed with extremely cold water. PHOS-CHEK WD881C was developed specifically for use in northern regions where night time freezing temperatures are common during the early spring and late fall fire season. Low viscosity at cold temperatures allows the foam concentrate to be readily mixed using educators, proportioners, and injection devices, even at near or below freezing temperatures. US Forest Service testing validates that the Pour Point of WD881C is -8 °F (-22 °C) which is significantly lower than any other product currently included on their Qualified Products List (QPL).

The unique combination of surfactants in WD881C 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. The foam blanket creates a barrier between the fuel and the fire, knocking down the fire faster than water alone and allows fire fighters to see the areas of application. The reduced surface tension allows the water to penetrate deep into Class A fuels rather than beading up and rolling off before it can be absorbed. Making the water more effective reduces the amount of water needed to extinguish the fire and increases fire fighter safety through quicker knockdown and reduced mop-up/overhaul requirements.

Both PHOS-CHEK WD881 and WD881C are the most concentrated Class A foam products available today. Many available products contain a significant amount of added water in the concentrate. The extra water in the concentrate means higher use rates will be required to achieve expected results. WD881C is compatible with fresh water, sea water and long-term retardant. Foam characteristics are not affected by freeze-thaw.

WD881C 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

WD881C is fully tested and qualified for use by the USDA Forest Service under Specification 5100-307a for all application methods including Canadair water scooping aircraft. WD881C is ideally suited for use where cold water lakes are common well into and through the fire season. WD881C meets the requirements of NFPA 1150 and produces superior foam in both Compressed Air Foam Systems (CAFS) and in aspirated foam applications. WD881C is readily biodegradable.



### PRODUCT CHARACTERISTICS

Color/Odor	Tan liquid
Viscosity	33 centipoise (cP) at 70 °F (21 °C)
Density	8.50 lbs/US gallon (1.021 kg/liter)
pH	7.5 ± 0.5
Surface Tension	34.8 dynes/ cm <sup>2</sup> at 0.3%
Pour Point	-8 °F (-22 °C)

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](http://www.Phos-Chek.com) or [www.Perimeter-Solutions.com](http://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

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

**EUROPE**  
PERIMETER SOLUTIONS BIOGEMA SAS  
415, rue Louis Armand  
Pôle d'activités Aix les Milles  
F-13290 Aix en Provence France  
Tel: +33 4 42 24 45 08  
24HR: +33 6 8910 3300

**AUSTRALIA**  
PHOS-CHEK AUSTRALIA  
46 Hudson Crescent  
Albury NSW 2641  
Australia  
Tel: +61 2 6040 6900  
24HR: +61 0 417 525 970

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### USE RATES

- 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%

### ENVIRONMENTAL INFORMATION

WD881C 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.
- WD881C 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 WD881C 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](http://www.phos-chek.com)



### PACKAGING

#### ORDERING INFORMATION

	lbs*	kgs*	PART #
5 gallon pail (20 litres), PHOS-CHEK WD881C	45	19	10002118
55 gallon drum (205 litres), PHOS-CHEK WD881C	470	212	10001578
260 gallon tote (985 litres), PHOS-CHEK WD881C	2255	1023	10001442

#### \*Approximate shipping weight

Additional WD881C packaging options include 30 gallon drums, semi-bulk tote bins and bulk trucks. Contact your local authorized PHOS-CHEK distributor or factory sales representative for details <https://phoschek.com/contact/>



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