



**PHOS-CHEK® 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 significantly more water in the concentrate. This extra water means higher use rates will be required to achieve expected results.

WD881 does not contain fluorinated surfactants such as PFOS/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, 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 only 0.1%, 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.



**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%

**Packaging**

Phos-Chek WD881 is available in bulk trucks, 260 and 330 gal. semi-bulk tote bins, 30 and 55 gal. drums, 5 gal. jerry cans and 4 oz. bottles. Special package sizes available.

Product Characteristics	
<b>Color/Odor</b>	Tan liquid with a hint of orange blossom
<b>Viscosity</b>	41 centipoise (cP) at 75° F (24° C)
<b>Density</b>	8.55 lbs/US gallon 1.027 kg/liter
<b>pH</b>	7.0-8.0 (cP); typically 7.5
<b>Surface Tension</b>	29.6 dynes/cm <sup>2</sup> @ 0.3%
<b>Flash/Fire Point</b>	None (Closed Cup) 260° F (127° C) Flash (Open Cup) 268° F (131° C) Fire (Open Cup)





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### Always use the right tool for the job

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    ✓✓✓ = Excellent Effectiveness    ✓✓ = Good Effectiveness    ✓ = Baseline Effectiveness

### Handling Precautions

- For detailed safety information, please refer to the MSDS.
- WD881 concentrate is moderately irritating to eyes and slightly irritating to skin. Prolonged or repeated contact with the concentrate may produce skin irritation and inhalation of its mists may 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 minutes.
- **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 WD881 at use levels (0.1%-1.0%) are only minimally irritating, but should be washed from the skin as soon as practical, as drying and chapping could result from prolonged exposure.
- For complete MSDS, visit [www.phoschek.com](http://www.phoschek.com).

### For more information, contact any of our worldwide ICL Fire Safety offices.

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