



PHOS-CHEK® WD881C Class A Foam Concentrate



Description

Phos-Chek WD881C Class A foam concentrate is specially formulated to make water more effective for fire fighting. 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 eductors, proportioners, and injection devices, even at near or below freezing temperatures.

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 significantly more 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.

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.

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%

Packaging

Phos-Chek WD881C 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	
Color/Odor	Tan liquid
Viscosity	33 centipoise (cP) at 70° F (21° C)
Density	8.50 lbs/US gallon 1.021 kg/liter
pH	7.0-8.0 (cP); typically 7.5
Surface Tension	34.8 dynes/cm ² @ 0.3%
Pour Point	-8° F



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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.
- WD881C 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 WD881C 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.

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

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06-2014-1