

## Class A Foam

Since 1963, firefighters around the world have relied on Phos-Chek fire chemicals to help them fight fire. Elite firefighters rely on Phos-Chek WD881 Class A foam concentrate to significantly enhance water's effectiveness. Class A foam makes water more effective by reflecting heat, insulating fuel, increasing heat absorption, clinging to vertical surfaces and penetrating deep into burning fuel. WD881 Class A foam enhances a firefighter's ability to fight fire fast. Foam provides faster knockdown and reduces the amount of water used to suppress a fire. Overhaul can be completed up to three times faster using WD881. Phos-Chek WD881 is effective on all types of fires including structural, vehicle, tire and nuisance fires. It is also effective on coal mine fires, many industrial fires and running fuel fires. In addition, WD881 works to neutralize bee stings, decontaminate chemical agents, and suppress toxic vapors. And for over 25 years, wildland fire agencies, including the USFS, have relied on WD881 for aerial attach and prescribed burning.

Phos-Chek WD881 Class A Foam concentrate is specially formulated to make water more effective for firefighting. 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 allowing 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.

Package Size: 20L Pail



[www.pslfireandsafety.co.nz](http://www.pslfireandsafety.co.nz)

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### WHAT IS PHOS-CHEK CLASS A FOAM AND HOW DOES IT WORK?

Water, as it is converted into steam, has tremendous capacity to absorb and carry away heat. Unfortunately, water's strong surface tension causes it to bead up and roll off most fuels and away from heat too fast to be able to absorb its full heat capacity. Phos-Chek's unique combination of surfactants significantly reduces water's surface tension. As a result, water containing low concentrations (0.1% to 1.0%) of Phos-Chek foam concentrate:

- Stretches out the water droplet into a bubble and holds it that way, increasing its heat absorbing surface
- Penetrates deep into Class A fuels
- Has an affinity for carbon. Phos-Chek bonds with carbon like a magnet holding the water against the fuel. It grabs onto smoke greatly increasing visibility and reducing knockdown time
- Reduces the amount of water needed to fight a fire because it uses it much more effectively. Using less water provides many benefits including:
  - > Less property damage
  - > Reduction of toxic products of combustion into the environment
  - > Preservation of fire scene for arson investigation
  - > Protects structures and fuels by blanketing the surface with bubbles
  - > Increases firefighter safety through quicker knockdown and increased overhaul properties

### WHAT IS DIFFERENT ABOUT PHOS-CHEK COMPARED TO OTHER CLASS A FOAM PRODUCTS?

Phos-Chek is the most concentrated Class A foam available today. Many other products contain significantly more water, up to 85%. Are you paying for foam concentrate or a bucket of water? Phos-Chek has special properties and has passed third party laboratory testing criteria not matched by any other product. Phos-Chek:

- Passes and exceeds U.S Government Environmental, Health, Safety and Corrosion standards and requirements by similar agencies around the world
- Contains no EPA listed hazardous materials
- Readily biodegrades in the environment and meets all technical requirements of the National Fire Protection Association (NFPA) Standard #1150
- Extinguishes both Class A and B fires- passing UL Wetting Agent tests at the following use rates:
  - > Class A fire - Ordinary combustibles; wood, paper, plastic, rubber at 0.1% or 1 gallon of concentrate per 1000 gallons of water
  - > Class B fire- Flammable liquid hydrocarbon; gasoline, diesel fuel, kerosene at 0.25% or 2.5 gallons of concentrate per 1000 gallons of water
- Smells like oranges. A proprietary ingredient only available in Phos-Chek WD881 Class A foam

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