

Phos-Chek P100-F (1.0 lb/gal)

Phos-Chek P100-F is a dry concentrate formulation that uses a combination of monoammonium phosphate [MAP; $\text{NH}_4\text{H}_2\text{PO}_4$] and diammonium phosphate [DAP; $(\text{NH}_4)_2\text{HPO}_4$] as the fire retardant salts. Phos-Chek P100-F contains a gum thickener to provide a high viscosity product for improved drop characteristics. This formulation contains a fugitive coloring agent which will fade over time with exposure to sunlight.

Product Type:	High viscosity, gum-thickened, dry concentrate; batch or eductor mixed.
Application:	Fixed-wing airtankers including SEATs, helicopter buckets, and ground engines.
Use Level:	1.0 pounds of dry concentrate mixed with 1 gallon of water will produce 1.06 gallons of mixed retardant. Each gallon of mixed retardant contains the equivalent of 0.94 pounds of powder.
Yield:	1 ton of dry concentrate yields 2128 gallons of mixed retardant.
Specific Weight:	8.76 lb/gal for mixed retardant.
Viscosity:	801 – 1500 centipoise (cP). Field measurement (Marsh Funnel): A flow-through time between 17 and 30 seconds using the Marsh Funnel with large (17/64 inch diameter) tip indicates an acceptable viscosity.
Salt Content:	Combination of MAP and DAP to yield 5.82 percent P_2O_5 . Field measurement (Refractometer): A reading of 8.75 indicates proper salt content. A reading between 8.0 and 9.75 indicates an acceptable salt content. Field measurement (Density): A density of 1.050 g/mL indicates proper salt content. A density between 1.047 and 1.056 g/mL indicates an acceptable salt content.