

Phos-Chek MVP-F (0.95 lb/gal)

Phos-Chek MVP-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 MVP-F contains a gum thickener to provide a medium viscosity product for improved drop characteristics. The formulation contains a fugitive coloring agent. The color will fade over time with exposure to sunlight.

Product Type: Medium viscosity, gum-thickened, dry concentrate; batch or eductor mixed.

Application: Fixed-wing airtankers including SEATs, helicopter buckets, and ground engines.

Use Level: 0.95 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 0.90 pounds of dry concentrate.

Yield: 1 ton of dry concentrate yields 2224 gallons of mixed retardant.

Specific Weight: 8.78 lb/gal for mixed retardant.

Viscosity: 401 – 800 centipoise (cP).

Field measurement (Marsh Funnel): **A flow-through time between 16 and 22 seconds using the Marsh Funnel with large (17/64 inch diameter) tip indicates an acceptable viscosity.**

Salt Content: A combination of MAP and DAP to yield 5.70 percent by weight P_2O_5 .

Field measurement (Refractometer): A reading of 9.0 indicates proper salt content. **A reading between 8.25 and 10.0 indicates an acceptable salt content.**

Field measurement (Density): A density of 1.052 g/mL indicates proper salt content. **A density between 1.051 and 1.064 g/mL indicates an acceptable salt content.**