

Phos-Chek MVP-Fx (0.96 lb/gal)

Phos-Chek MVP-Fx 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-Fx contains a gum thickener to provide a medium viscosity product for improved drop characteristics. This formulation contains an enhanced fugitive coloring agent to improve visibility. 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 airtanker, SEATS, helicopter bucket, and ground engines

Use level: 0.96 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 0.91 pounds of powder.

Yield: 1 ton of dry concentrate yields 2209 gallons of mixed retardant.

Specific weight: 8.79 lb/gal for mixed retardant; equivalent to a density of 1.053 g/mL.

Viscosity: 401 – 800 centipoise (cP)

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

Salt content: Combine of MAP and DAP to yield 5.69 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 1.053 g/mL indicates proper salt content. **A density between 1.048 and 1.059 g/mL indicates an acceptable salt content.**