

## Phos-Chek 259-F (1.14 lb/gal)

Phos-Chek 259-F is a dry concentrate retardant that uses diammonium phosphate [DAP;  $(\text{NH}_4)_2\text{HPO}_4$ ] as the fire retardant salt. Phos-Chek 259-F is approved for all types of air and ground application. Phos-Chek 259-F contains a gum thickener to provide a low viscosity product and improved drop characteristics. The formulation contains a fugitive coloring agent. The color will fade over time with exposure to sunlight.

Product Type:	Low viscosity, gum-thickened, dry concentrate; batch or eductor mixed.
Application:	Helicopters with fixed tank or bucket, fixed-wing airtankers including SEATs, and ground engines.
Use Level:	1.14 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 1.08 pounds of powder.
Yield:	1 ton of dry concentrate yields 1856 gallons of mixed retardant.
Specific Weight:	8.95 lb/gal for mixed retardant.
Viscosity:	101 – 400 centipoise (cP). Field measurement (Marsh Funnel): <b>A flow-through time of 39 – 61 seconds using the Marsh Funnel with small (3/16 inch diameter) tip indicates an acceptable viscosity.</b>
Salt Content:	DAP to yield 5.97 percent by weight $\text{P}_2\text{O}_5$ . Field measurement (Refractometer): A reading of 13.3 indicates proper salt content. <b>A reading between 12.25 and 14.5 indicates an acceptable salt content.</b> Field measurement (Density): A density of 1.072 g/mL indicated proper salt content. <b>A density between 1.066 and 1.079 g/mL indicates an acceptable salt content.</b>