

Phos-Chek 259-Fx (1.01 lb/gal)

Phos-Chek 259-Fx F is a dry concentrate retardant that uses a combination of diammonium phosphate [DAP; $(\text{NH}_4)_2\text{HPO}_4$] and monoammonium phosphate [MAP; $\text{NH}_4\text{H}_2\text{PO}_4$] as the fire retardant salts. Phos-Chek 259-Fx is approved for all types of air and ground application. Phos-Chek 259-Fx contains a gum thickener to provide a low viscosity product and 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:	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:	1.01 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 1.06 pounds of dry concentrate.
Yield:	1 ton of dry concentrate yields 2105 gallons of mixed retardant.
Specific Weight:	8.82 lb/gal for mixed retardant.
Viscosity:	101 – 400 centipoise (cP). Field measurement (Marsh Funnel): A flow-through time of 29 – 44 seconds using the Marsh Funnel with small (3/16 inch diameter) tip indicates an acceptable viscosity.
Salt Content:	A combination of DAP and MAP to yield 5.69 percent by weight P_2O_5 . Field measurement (refractometer): A reading of 10.5 indicates proper salt content. A reading between 9.75 and 11.75 indicates an acceptable salt content. Field measurement (Density): A density of 1.057 g/mL indicates proper salt content. A density between 1.051 and 1.063 indicates an acceptable salt content.