

Phos-Chek D75-R and D75-F (1.2 lb/gal)
(No Longer in Production; Supplies May Remain in Some Locations.)

Phos-Chek D75-R is a dry concentrate formulation that uses a mixture of monoammonium phosphate and ammonium sulfate as the active fire retardant salts. Phos-Chek D75-R contains a relatively high concentration of gum thickener to provide a high viscosity for improved drop characteristics from fixed-wing airtankers. The formulation contains iron oxide as the coloring agent which yields a long-lasting color. It also contains corrosion inhibitors and viscosity stabilizers. Due to the high viscosity of this product, it is not typically applied by ground engine or helicopter.

Product type:	High-viscosity, gum-thickened, dry concentrate; batch or eductor-mixed.
Application:	Fixed-wing airtanker.
Use level:	1.20 pounds of dry retardant mixed with 1 gallon of water will produce 1.07 gallons of mixed retardant. Each gallon of mixed retardant contains the equivalent of 1.12 pounds of powder.
Yield:	1 ton of powder yields 1786 gallons of mixed retardant.
Viscosity:	1001-1600 centipoise (cP). Field measurement (Marsh funnel) 24-34 sec through the large tip.
Salt content:	Field measurement (refractometer): A reading of 12.1 indicates a proper salt content. A reading between 11.25 and 13.25 indicates an acceptable salt content.
Specific weight:	8.91 lb/gal for mixed retardant; equivalent to a density of 1.070 g/mL.