

## Phos-Chek LC-95A-R (5.5:1 mix ratio)

Phos-Chek LC-95A-R is a wet concentrate formulation that uses ammonium polyphosphate (APP, 11-37-0) as the fire retardant salt. Phos-Chek LC-95A-R contains a gum thickener to provide a low viscosity product for improved drop characteristics. This product contains iron oxide as the coloring agent to provide a long-lasting color for improved visibility. Mixing occurs through simple proportioning of the retardant concentrate and water. The resulting mixed retardant is pumped directly into the aircraft without intermediate storage.

Product Type: Low viscosity, gum-thickened, wet concentrate; proportioner with in-line blending.

Application: Fixed-wing airtanker including SEATS, helicopter buckets, and ground engines.

Use Level: 1 gallon of wet concentrate mixed with 5.5 gallon of water will produce 6.47 gallons of mixed retardant. Each gallon of mixed retardant contains the equivalent of 1.91 pounds or approximately 0.15 gallons of wet concentrate.

Yield: 1 ton of wet concentrate yields 1054 gallons of mixed retardant.

Specific Weight: 8.97 and 12.32 lb/gal, respectively, for mixed retardant and wet concentrate.

Viscosity: 101 – 400 centipoise (cP).

Field Measurement (Marsh Funnel): **A flow-through time between 33 and 49 seconds using the Marsh Funnel with small (3/16 inch diameter) tip indicates an acceptable viscosity.**

Salt Content: 7.36 percent by weight P<sub>2</sub>O<sub>5</sub>.

Field measurement (Refractometer): A reading of 13.25 indicates proper salt content. **A reading between 12.0 and 14.5 indicates an acceptable salt content.**

Field measurement (Density): A density of 1.079 g/ml indicates proper salt content. **A density between 1.071 and 1.087 g/ml indicates an acceptable mixed retardant.**