

December 5th, 2025

Long-Term Retardant for Wildland Fire Management – Aerial Applications

Qualified by US Forest Service in Accordance with Forest Service Specification 5100-304d

These products are evaluated, qualified, and approved for use only at the specified mix ratio with the indicated application equipment.

Consult individual agencies for specific policies relating to long-term retardant use.

Definition: Retardants contain salts that decrease fire intensity and slow advance of the fire, even after the water they contain evaporates.

<u>Aerial Qualified Chemical</u>	<u>Mix Ratio</u> (Pounds concentrate per gallon water)	<u>Qualified Applications¹</u>				
		Fixed-Wing		Helicopter		
		Multi Engine	SEATS	Fixed-Tank	Bucket	
Dry Concentrate - Gum-thickened; Permanent or Temporary Base						
Phos-Chek MVP-Fx	0.96 lb/gal	●	●	-	●	
Phos-Chek MVP-F	0.95 lb/gal	●	●	-	●	
Dry Concentrate - Gum-thickened; Temporary Base						
Phos-Chek 259-Fx	1.01 lb/gal	●	●	●	●	
Wet Concentrate - Gum-thickened; Permanent or Temporary Base						
Phos-Chek LC-95A-R	5.5:1	●	●	-	●	
Phos-Chek LC-95A-Fx	5.5:1	●	●	-	●	
Phos-Chek LC-95A-F	5.5:1	●	●	-	●	
Phos-Chek LCE20-Fx	5.2:1	●	●	-	●	
Wet Concentrate - Gum-thickened; Temporary Base						
Phos-Chek LC-95-W Also sold as Phos-Chek GS 23 RR	5.5:1	●	●	-	●	

1 – Qualification Notes

- Fully Qualified – Product complies with all requirements of a formal specification.
- Conditionally Qualified – Product complies with all requirements in the specification for laboratory evaluation; an operational field evaluation is required for full qualification.

Note: Notwithstanding the requirements of Forest Service Specification 5100-304d, the Government reserves the right to suspend or remove product qualification status if operational, safety, quality, airworthiness, or other issues are identified.



December 5th, 2025

Long-Term Retardant for Wildland Fire Management – Pretreatment/Ground Applications

Qualified by US Forest Service in Accordance with Forest Service Specification 5100-304d

These products are evaluated, qualified, and approved for use only at the specified mix ratio with the indicated application equipment.

Consult individual agencies for specific policies relating to long-term retardant use.

Definition: Retardants contain salts that decrease fire intensity and slow advance of the fire, even after the water they contain evaporates.

<u>Ground Applied Chemicals</u>	<u>Mix Ratio</u> (Gallons of water per gallon Concentrate)	<u>Qualified Applications¹</u> –Ground Applied
Pretreatment, Non Storable²		
Phos-Chek LC-95-W	5.5:1	●
Phos-Chek LC-95A-Fx	5.5:1	●
Phos-Chek Fortify	3	●
Phos-Chek LCE20W	3	●
Komodo	3	●
Flame Security International FIRECOAT DEFEND	1.04 lb/gal	●
1 – Qualification Notes		
● Fully Qualified – Product complies with all requirements of a formal specification.		
2 – Pretreatment category has not been evaluated for durability and weathering.		
3 – These products are designed to be delivered pre-mixed and ready-to-use as pretreatment chemicals. No mixing shall take place after purchase.		
Note: Notwithstanding the requirements of Forest Service Specification 5100-304d, the Government reserves the right to suspend or remove product qualification status if operational, safety, quality, or other issues are identified.		