

December 5th, 2025

Products Meeting the Canadian Specification for Long-Term Retardants

(Meets Qualifying Performance Requirements for Long-Term Fire Retardants, US Forest Service 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.

Chemical	Mix Ratio	Qualified Applications ¹				
	(Pounds concentrate per gallon water)	Fixed-Wing ³		Helicopter		Ground Applied
		Multi Engine	SEATS	Fixed-Tank	Bucket	
Dry Concentrate - Gum-thickened; Permanent or Temporary Base						
Phos-Chek MVP-Fx	0.96 lb/gal (115.0 g/L)	●	●	-	●	●
Phos-Chek MVP-F	0.95 lb/gal (113.8 g/L)	●	●	-	●	●
Dry Concentrate - Gum-thickened; Temporary Base						
Phos-Chek 259-Fx	1.01 lb/gal (121.0 g/L)	●	●	●	●	●
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	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****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.

Chemical	Mix Ratio	Qualified Applications ¹				
	(Gallons of water per gallon of conc.)	Fixed-Wing		Helicopter		Ground Applied
		Multi Engine	SEATS	Fixed-Tank	Bucket	
Pretreatment, Non Storable ²						
Phos-Chek LC-95-W	5.5:1	-	-	-	-	●
Phos-Chek LC-95A-Fx	5.5:1	-	-	-	-	●
Phos-Chek Fortify	4	-	-	-	-	●
Phos-Chek LCE20W	4	-	-	-	-	●
Komodo	4	-	-	-	-	●
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.