

September 5th, 2022

Long-Term Retardant for Wildland Fire Management

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>Chemical</u>	Mix Ratio (Pounds concentrate per gallon water)	Qualified Applications ¹					
		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	•	•	-	•	•	
Phos-Chek MVP-F	0.95 lb/gal	•	•	-	•	•	
Fortress FR-100	1.68 lb/gal	О	О	-	О	•	
Fortress FR-105M	1.68 lb/gal	0	О	-	О	•	
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	•	•	-	•	•	
Fortress FR-200	2.4:1	О	О	-	О	•	
Wet Concentrate - Gum-thickened	; Temporary Base					•	
Phos-Chek LC-95-W	5.5:1	•	•	-	•	•	
Ouglification Notes		-		•			

1 – Qualification Notes

- Fully Qualified Product complies with all requirements of a formal specification.
- o Conditionally Qualified Product complies with all requirements in the specification for laboratory evaluation; a field evaluation is required for full qualification.
- Δ Interim Qualified Product complies with all interim requirements in Appendix A of the specification; final results and a field evaluation is required for full qualification.
- 2 Pretreatment category has not been evaluated for durability and weathering.
- 3 CAUTION: When switching between Fortress and Phos-Chek products, rinsing the tank and outside of the airtanker is required. Cross-mixing of these products may increase maintenance time and cleaning.



September 5th, 2022

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 Concentrate)	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	-	-	-	-	•	
Fortress FR-600	4	-	-	-	-	•	
Komodo	4	-	-	-	-	•	
Fortress FR-100	1.68 lb/gal	-	-	-	-	•	
Fortress FR-200	2.4:1	-	-	-	-	•	
Fortress FR-105M	1.68 lb/gal	-	-	-	-	•	

1 - Qualification Notes

- Fully Qualified Product complies with all requirements of a formal specification.
- o Conditionally Qualified Product complies with all requirements in the specification for laboratory evaluation; a field evaluation is required for full qualification.
- Δ Interim Qualified Product complies with all interim requirements in Appendix A of the specification; final results and a field evaluation is required for full qualification.
- Not qualified for this application.
- 2 Pretreatment category has not been evaluated for durability and weathering.
- 3 CAUTION: When switching between products from different manufacturers, rinsing the tank is required. Cross-mixing of these products may increase maintenance time and cleaning.
- 4 These products are designed to be delivered pre-mixed and ready-to-use as pretreatment chemicals. No mixing shall take place after purchase.