

# PHOS-CHEK® 259-Fx

LONG-TERM FIRE RETARDANT  
LOW VISCOSITY (LV) POWDER CONCENTRATE



## APPLICATIONS

**PHOS-CHEK® 259-Fx** long-term fire retardant is qualified by the USDA Forest Service under Specification 5100-304c (as amended) for use in all types of delivery systems, including fixed-wing air tankers, helicopters with fixed tanks or buckets and ground engines. PHOS-CHEK 259-Fx is specially formulated to meet stringent magnesium corrosion requirements and is, consequently, the **ONLY** retardant qualified for use in helicopters equipped with fixed tanks.

PHOS-CHEK long-term fire retardants are used for wild-land fire control in forest, brush or grassland. Functionally, PHOS-CHEK retardants react with and alter the decomposition of wild-land fuels so that when used at the qualified mix ratio they do not support flaming or glowing combustion. This deprives the fire of fuel, reducing fire intensity and the rate of flame spread. Long-term retardants are useful in prescribed burning. When applied at low application rates, fire intensity can be dramatically decreased while slow burning continues. PHOS-CHEK 259-Fx can be supplied for use in helicopter operations at a fixed base, or for use in Mobile Retardant Base (MRB) operations to provide forward attack support. Perimeter Solutions MRB units can support multiple air and ground operations and can mix up to 50,000 gallons of PHOS-CHEK 259-Fx per hour.



## DESCRIPTION

**PHOS-CHEK 259-Fx** is an ultra highly visibility powder concentrate that mixes readily with water by agitation or PHOS-CHEK eductor-mixing systems. 259-Fx provides superior visibility in the air and on the ground when applied, but slowly fades during exposure to sunlight.

PHOS-CHEK 259-Fx is an all phosphate, gum thickened, low-viscosity retardant that provides highly effective and accurate aerial drops from all air tankers. The elastic nature of PHOS-CHEK 259-Fx solution improves aerial delivery performance by reducing drift, dispersion, and evaporation and facilitates increased fuel coverage, wrap around and penetration through canopy and ladder fuels to ground vegetation. PHOS-CHEK 259-Fx exhibits extremely low corrosion to most metals including magnesium.



**APPLICATIONS**

TABLE	LONG-TERM RETARDANT	GEL	CLASS A FOAM	WATER
Indirect Attack	✓ ✓ ✓ ✓	✓ ✓	✓	
Direct/Parallel Attack	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓
Interior Structure Attack		✓ ✓	✓ ✓ ✓ ✓	✓
Structure Protection: -Indirect Application	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓
Structure Protection: -Direct Application		✓ ✓ ✓ ✓	✓ ✓ ✓	✓
Mop Up	✓ ✓	✓ ✓	✓ ✓ ✓ ✓	✓
Prescribed Burn Control	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓

- ✓ ✓ ✓ ✓ = Superior Effectiveness
- ✓ ✓ ✓ = Excellent Effectiveness
- ✓ ✓ = Good Effectiveness
- ✓ = Baseline Effectiveness

**PRODUCT CHARACTERISTICS**

Color/Odor	Fugitive (F)
Mix Ratio	1.01 lbs./gal. of water, 0.121 kg./litre
Yield	2105 gal./ton of concentrate, 8.82 lbs./gal. (mixed retardant)
Specific Gravity	1.051 – 1.063 (mixed retardant)
Viscosity (Concentrate)	101 – 400 centipoise (cP)
Refractometer	9.75 – 11.75 (mixed retardant)



# PHOS-CHEK® 259-Fx

## PACKAGING

ORDERING INFORMATION			
PHOS-CHEK 259-Fx Fire Retardant	lb.*	kg.*	Part #
50 lb. Pail (23 kg)	53	24	10004564
2000 lb. Super Sack (907 kg)	2100	952	10004525
2000 lb. PHOS-BIN® (907 kg)	2100	952	10004524
Bulk	-	-	10004526

\*Approximate shipping weight

Contact your local authorized PHOS-CHEK distributor or factory sales representative for additional details. <https://phoschek.com/contact/>



## HANDLING PRECAUTIONS

For detailed safety information, please refer to the SDS.

- Minimally irritating to the eyes, non-irritating to skin.
- **Precautionary Measures:** Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary contact and removal of the material from the eyes, skin and clothing.
- **If in eyes:** Flush with plenty of water.
- **Skin Protection:** As a good industrial practice, wear protective gloves to minimize skin contact. Wash hands and exposed skin after handling.
- **Respiratory Protection:** Avoid breathing dust. Respiratory protection should be worn when airborne exposure is excessive. See SDS for further guidance.
- **For complete SDS,** visit [www.phos-chek.com](http://www.phos-chek.com)



**Solutions That Save.**

### FOR MORE INFORMATION

Contact any of our worldwide Perimeter Solutions Fire Safety offices or visit:  
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