



FireFighter® PG

Fire Protection Fluid

Product Description

FireFighter PG is a non-toxic* antifreeze designed specifically for fire protection systems. Use in place of water and other water-like fluids in sprinkler systems where freezing may either cause damage or interfere with the functioning of systems or equipment and/or toxicity to humans or animals is a concern.



Applications:

- FireFighter PG is a Propylene Glycol based material which is compatible with all approved types of sprinkler systems with the exception of CPVC.

System Protection:

Protection Description

Freeze is the temperature where the first ice crystal forms in the fluid.

Burst is the temperature where the fluid is solid, expanding and bursting the vessel.

FireFighter PG
Ready-to-Use

Specific Gravity @ 77°F	Freeze Point	Burst Point
1.033	0°F	-50°F
1.028	+10°F	-20°F
1.024	+15°F	0°F
1.020	+20°F	+10°F

FireFighter PG
Concentrate

Concentration %	Freeze Point	Specific Gravity @ 60°F
60%	-60°F	1.045
50%	-26°F	1.041
40%	-6°F	1.034
30%	+9°F	1.027



Sizes:

FireFighter PG is available in:

- 1-gallon plastic bottles (6/case, PG Ready-to-Use only)
- 5-gallon pails
- 30-gallon drums
- 55-gallon drums
- 275- or 330-gallon totes
- 5000-gallon tank truck

Installation:

- The system should be flushed and all water should be evacuated.
- FireFighter PG Ready-to-Use should be tested before it is added into the system. This will confirm that it is at the freeze temperature that fits the systems application.
- After filling the system, a sample of the fluid should be taken from a portion of the system that is as far from the filling location as possible and tested.
- Compare the results from both tests. They should be the same. If not, corrections should be made in the concentration of the fluid. To increase the concentration, the system should be drained. The drained fluid should be mixed with FireFighter PG Concentrate until the desired temperature is reached.

System Requirements, Limitations & Cautions:

All fire protection sprinkler systems that use FireFighter PG should conform to local, state and NFPA requirements. The use of antifreeze within these systems should also conform to NFPA requirements.

Use of antifreeze solutions should also be in conformance with any state or local health codes. Please contact your local health authorities if you have any questions concerning the codes in your area.

Chemicals which compose FireFighter PG can break down over time. NFPA 25 requires that the freezing point of the system should be tested at least once a year. Periodic testing of systems is critical to maintaining the proper concentration and freeze point of the fluid. Leaks, pressure surges, and temperature changes to the system can cause antifreeze to flow out of the system or water to flow into the system changing the freeze temperature.

FireFighter Accessories:



The Palm Abbe refractometer is fast, convenient, and easy to use. Simply place a drop or two of fluid in the titanium well and press a button. The custom-designed microprocessor delivers a nearly instantaneous readout on one of five different scales.



The analog refractometer features a propylene glycol coolant temperature scale and is made of polybutylene terephthalate (PBT) thermoplastic. The rubber insulated grip protects samples from heat; hood eliminates excess light. Model includes a dipstick/flexible sampling pump.

*FDA Reference:

FireFighter PG is considered “Generally Recognized as Safe” by the Federal Food & Drug Administration.

Non-Toxic is used to describe extremely low chronic and acute toxicity. No maximum safe intake for humans has been established.

*Toxicological, Environmental, & Health Information:

FireFighter PG is virtually harmless to animals or plants; however, the disposal of these materials should be in conformance with national, state, and local health codes.