



FireFighter[®] Antifreeze

for Wet Fire Sprinkler Systems

Factory Pre-Mixed • Meets NFPA Requirements Accessories & Testing Equipment Available

FireFighter non-toxic* antifreeze solutions are designed specifically for wet fire sprinkler 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.



FireFighter GL48



Factory pre-mixed glycerine solution for CPVC wet fire sprinkler systems.



FireFighter PG38

Factory pre-mixed propylene glycol solution for most metal wet fire sprinkler systems.





FireFighter GL48 Ready-to-Use

FireFighter PG38 Ready-to-Use

% Con. By Vol.	Specific Gravity @ 77 °F	Freeze Point	Burst Point
50 [^]	1.141	-19 °F	-50 °F
48	1.137	-15 °F	-50 °F
40	1.114	-2 °F	-45 °F
35	1.100	4 °F	-40 °F

% Con. By Vol.	Specific Gravity @ 77 °F	Freeze Point	Burst Point
40 [^]	1.032	-5 °F	-70 °F
38	1.037	0 °F	-50 °F
35	1.028	2 °F	-50 °F
30	1.024	10 °F	-10 °F

[^] For reference of existing system concentrations only. NFPA requires new systems not to exceed 48% glycerine by volume or 38 % propylene glycol by volume. "

System Protection:

Protection Description

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

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

Sizes:

- 5-gallon pails
- 30-gallon drums
- 55-gallon drums
- 275- or 330-gallon totes
- 5000-gallon tank truck

Sizes:

- 1-gallon plastic bottles (6/case)
- 5-gallon pails
- 30-gallon drums
- 55-gallon drums
- 275- or 330-gallon totes
- 5000-gallon tank truck

FireFighter GL48

FireFighter PG38

Ingredients:		
Active Ingredients:	USP or CP Glycerine	Propylene Glycol
Other Ingredients:	Viscosity Reduction Agent Food-Grade Dye	Viscosity Reduction Agent Food-Grade Dye Corrosion Inhibitor
<u>Ready-to-Use</u>		
Physical Properties:		
Color	Orange	Red
Density @ 77°F (grams/ml)	1.137 g/cc	1.037 g/cc
Viscosity @ 77°F (Centipoise)	6	4.38
pH	7	8.0 - 9.0
Boiling Point @ Atmospheric Pressure (760 mm)	106°C/222°F	103°C/218°F
Minimum Burst Temperature (Hard Freeze)	-50°F	-50°F
Flash Point	n/a	n/a
Fire Point (Pensky-Martens Closed Cup)	n/a	n/a

(**Product will crystallize.)

Tubing Size Charts:

Reference these charts when calculating the proper fluid capacity for a wet sprinkler system.

Copper Tube Type L

Tubing Size	Gallons of Fluid Per 100 Feet
1/2"	1.210
3/4"	2.510
1"	4.280
1-1/4"	6.520
1-1/2"	9.250
2"	16.060
2-1/2"	23.780

Schedule 40 Pipe

Tubing Size	Gallons of Fluid Per 100 Feet
1"	4.82
1-1/4"	8.29
1-1/2"	11.107
2"	18.42
2-1/2"	24.87
3"	38.40
4"	66.13

Polybutylene Tube

Tubing Size	Gallons of Fluid Per 100 Feet
1/2"	1.02
3/4"	2.06
1"	3.46
1-1/4"	5.16
1-1/2"	7.00
2"	12.34

BlazeMaster® Pipe

Tubing Size	Gallons of Fluid Per 100 Feet
3/4"	3.188
1"	5.018
1-1/4"	7.997
1-1/2"	10.471
2"	16.369
2-1/2"	23.953
3"	35.530

FireFighter® Antifreeze

Availability:

FireFighter GL48 & PG38 are available throughout the U.S. through wholesale distributors. Please contact Noble Company for your local representative and wholesaler.

Custom Blends:

Custom formulations are available for lower concentrations of glycerine or propylene glycol. Please contact Noble Company for more information.

System Requirements, Limitations & Cautions:

All fire protection sprinkler systems that use FireFighter GL48 & PG38 should conform to local, state and NFPA requirements. The use of antifreeze within these systems should also conform to NFPA requirements. FireFighter PG38 should not be used with systems containing galvanized metals or CPVC pipe.

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.

Maintenance:

Chemicals which compose FireFighter GL48 & PG38 can break down over time. NFPA 25 requires that the freezing point of the system 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.

Testing:

To test the freeze protection level of FireFighter GL48 & PG38, the correct instrument must be used.

For testing FireFighter GL48, Noble Company offers two instruments: 1) A laboratory grade hydrometer 2) A digital refractometer.

For testing FireFighter PG38, Noble Company offers three instruments: 1) A laboratory grade hydrometer 2) An analog refractometer 3) A digital refractometer.

When testing indicates that the solution has weakened, empty the system and replace with new FireFighter GL48 & PG38, according to the installation instructions and all NFPA requirements.

For further information concerning correct testing procedures and test instruments, contact our technical services department and ask for "How to Choose the Correct Antifreeze Loop Tester", or go to www.noblecompany.com.

NFPA requires a tag to be affixed to the riser indicating the date tested or replaced, the type and concentration by volume of fluid used, system capacity (in volume), contractor name and license number, and a statement indicating if the entire system was drained and replaced with antifreeze. Tags are available free of charge from Noble Company or your local FireFighter distributor.

Technical Support:

Specifications, installation design, installation techniques and unique applications will be reviewed upon request. Address inquiries ATTN: FireFighter Technical Support, Email us: sales@noblecompany.com or phone us at: 800-878-5788. Field services are available through factory representatives and Noble Company staff. Contact Noble Company for local representatives.

Additional product information and MSDS are available immediately through our website at www.noblecompany.com.

*FDA Reference:

FireFighter GL48 & PG38 are virtually harmless to animals or plants; however, the disposal of these materials should be in conformance with national, state and local health codes. FireFighter GL48 & PG38 are 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.

Member of:



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