FireFighter GL

FireFighter PG

Sizes:

FireFighter GL is available in:

Sizes:

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

5-gallon pails

- 275- or 330-gallon totes
 - 5000-gallon tank truck

FireFighter PG is available in:

(6/case, PG Ready-to-Use only)

1-gallon plastic bottles

Availability:

FireFighter GL & PG 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. Please contact Noble Company for more information.

System Requirements, Limitations & Cautions:

All fire protection sprinkler systems that use FireFighter GL & 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.

Maintenance:

Chemicals which compose FireFighter GL & PG 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 GL or PG, the correct instrument must be used. For testing FireFighter GL, Noble Company offers two instruments: 1) A laboratory grade hydrometer 2) A digital refractometer.

For testing FireFighter PG, Noble 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 GL or PG, according to the installation instructions.

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.

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 or our Fast Fax service at 1-800-272-1519. These are available 24 hours a day, 7 days a week.

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Company

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Easy to Use • Easy to Maintain • Variety of Sizes Accessories & Testing Equipment Available

FireFighter non-toxic* antifreeze solutions are 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.

FireFighter GL T

FGG /=BM=/ CZ SYSTEM COMPATIBLE



Propylene Glycol solutions for most metal wet fire sprinkler systems.





Glycerine solutions for CPVC wet fire sprinkler systems.















FireFighter PG

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.

 FGG =BM=/ CZ FireFighter GL Ready-to-Use						
Specific Gravity @ 77°F	Freeze Point	Burst Point				
1.127	-15°F	-50°F				
1.119	-5°F	-45°F				
1.112	0°F	-40°F				
1.095	+10°F	-35°F				

FireFighter GL Concentrate

Concentration %	Freeze Point	Specific Gravity @ 60°F
70%	-40°F	1.165
60%	-22°F	1.151
50%	-15°F	1.133
40%	+5°F	1.100

FireFighter PG Readv-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	O°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

Active Ingredients: Other Ingredients:	USP c Viscosity
Physical Properties:	<u>Ready-</u>
Color	Ora
Density @ 77°F (grams/ml)	1.1263
Viscosity @ 77°F	6
(Centipoise)	
рН	7
Boiling Point @ Atmospheric Pressure (760 mm)	106

Minimum Burst Temperature

(Pensky-Martens Closed Cup)

(Hard Freeze)

Flash Point

Fire Point

Ingredients:

Fire

Tubing Size Charts:

calculating the proper fluid capacity

Reference these charts when

for a wet sprinkler system.



Tul

BlazeMaster® is	a re	egistered	trade	mark a	f The	Lubrizol	Corporation.
FGG/BM/CZ™	is a	tradema	rk of	The Lu	orizol	Corpora	tion.



*FDA Reference:

FireFighter GL & PG 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 GL & PG 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.

Flammability:

FireFighter GL & PG are not flammable since they have no measurable flash point; however, both products can flash or burn if the water content is evaporated off. No harmful fumes are produced.



e Fight	er GL	FireFig	hter PG	
JSP or CP Glycerine cosity Reduction Agent Dye		Propylene Glycol Viscosity Reduction Agent Dye Inhibitor		
eady-to-Use	<u>Concentrate</u>	<u>Ready-to-Use</u>	<u>Concentrate</u>	
Orange 1263 g/cc	Orange 1.2559 g/cc	Red 64.73 lb/ft	Red 66.18 lb/ft	
6	1390	4.38	35.66	
7	7	8.0 - 9.0	8.5 - 9.5	
106°C	290°C	218°F	310°F	
-50°F	+58°F*	-60°F	-100°F	
n/a	350°F	n/a	214°F	
n/a	400°F	n/a	220°F	

Copper	Т	u	b	e
T. con e				

lype L				
Gallons of Flui				
ibing Size	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			

Polybutylene Tube

ibing 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

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			

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			