

# ORISON

An ISO 9001:2008 Certified Company

## BioFROST® Fire38 PG

### FIRE SPRINKLER SYSTEM

### 38% Propylene Glycol Factory Pre-Mix

BioFROST Fire38 PG is a biobased, non-toxic, inhibited propylene glycol/water blend designed for all non-galvanized metal wet fire sprinkler systems. Fire38 PG is factory pre-mixed to NFPA guidelines of a 38% propylene glycol solution and is considered "GRAS", (Generally Recognized As Safe) by the FDA (Federal Food and Drug Administration).

The use of Fire38 PG should be in conformance with any/all state, local and NFPA requirements. NFPA 25 requires the freeze point of the system should be tested at least once/year to confirm proper concentration and freeze point of the fluid. System variables such as leaks, pressure surges and even temperature change can cause Fire38 PG to leak out of the system and allow water to flow into the system; which can affect the freeze point.

#### Not for use with CPVC

Freeze point range can quickly be determined by a PG refractometer available from Orison. The chart below shows typical properties and is for supplied for maintenance purposes.



**PROTECTION TO 0° F (-18° C)**

#### ADVANTAGES

- Blended to NFPA Guidelines of 38%
- Biobased
- Non-Toxic (GRAS)
- Non-Hazardous
- Blended with highly purified R/O water to eliminate mineral or scale build-up

Fire38 PG % / Spec. Grav.	PG %	PG (68°F) (Refractometer)	Freeze Point °F / °C	Boiling Point °F / °C	Specific Heat @ 35° F	Viscosity cSt @ 68° F (20° C)
100 / 1.03 - 1.04	37 - 38	<38.1	0° / -18°	219° / 104°	0.9	4.3

#### MAINTENANCE DIRECTIONS

1. Follow original equipment manufacturer's instructions for adding antifreeze.
2. Test Fire38 PG prior to filling system.
3. Evacuate all water/fluid from system and drain drops per NFPA requirements.
4. Can be used with glycerin only based technologies. Do not mix with non-PG anti-freeze/heat transfer fluids or chemicals.
5. Follow NFPA guidelines for testing the fluid after filling. Samples should be taken from a minimum of a high point and low point. Results should be comparable to each other and to the sample of the fluid tested prior to filling system.
6. 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.

#### Availability

5 gallon pails  
55 gallon drums  
275 gallon totes  
330 gallon totes  
Bulk truck

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