

PRODUCT DESCRIPTION

Permafrost P is a non-toxic propylene glycol based heat transfer fluid for use in a wide array of industrial applications. This material contains a fully formulated blend of corrosion inhibitors to provide exceptional freeze point and burst protection while maintaining the integrity of your system and equipment.

Our unique blend of corrosion inhibitors is engineered to protect single and mixed metal systems from corrosion, provide exceptional freeze point depression, and maintain heat exchange surfaces. Permafrost heat transfer fluids are manufactured using only virgin glycol to ensure premium performance and reliability.

APPLICATIONS

Permafrost P delivers superior protection in conditions from -45.6°C to 162.78°C in the following applications:

HVAC (Heating, Venting, Air Conditioning)
 Natural Gas Compression Engines
 Ice Melt Systems
 LNG Vaporizers

Natural Gas Heaters
 Waste Heat Recovery
 Solar and GSHP Systems
 Arenas

Permafrost P can be used safely in a wide array of applications and will not mar elastomers, seals, or other construction materials, but is not recommended for CPVC (chlorinated polyvinyl chloride). Test data indicates that glycols can weaken this material and that ethylene or propylene glycol use can marginalize the integrity of CPVC.

PACKAGING

20 L Pail, 205L Drum, 1,000 L Tote/IBC (Intermediate Bulk Container), Truck.

TECHNICAL DATA

Propylene Glycol, V%	>93
Inhibitors	>6
Colour	Bright yellow or tailored
Specific Gravity	1.049 – 1.059
pH	8.5 – 11.5
Reserve Alkalinity, 100%	11.0 Min.
Evaporation Rate	<1

Typical Properties of 40% by volume solution:

BP @ 760 mm Hg	103.89 °C
Flash point (40%)	None
VP mm Hg (40% @ 37.78° C)	44.3
Thermal Conductivity (40% @ 37.78° C)	0.24
Specific Heat (40% @ 37.78)	0.91
Viscosity, cP (40% @ 37.78)	2.3

Typical physical properties of aqueous solutions:

FP °C	V%	BP °C
-3.3	10	100.00
-7.2	20	100.56
-9.4	25	101.11
-12.8	30	102.22
-16.7	35	102.78
-21.1	40	104.44
-33.3	50	106.11

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