

#### PRODUCT DESCRIPTION

Permafrost E is an ethylene glycol based heat transfer fluid for use in higher temperature, heavy duty 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 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 E delivers superior protection in conditions from -51.1°C to 176.68 °C in the following applications:

Natural Gas Compressor Engines  
High/Low Speed Stationary Engines  
Heat Tracing

Direct or Indirect Fired Line Heaters  
Standby Generators  
Air Compressor Engines

Permafrost E 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 galvanized steel systems unless etching of zinc and magnesium based coatings is deemed acceptable.

#### PACKAGING

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

#### TECHNICAL DATA

Ethylene Glycol, V%	~ 93
Inhibitors	~ 7
Colour	Bright yellow or tailored
Specific Gravity	1.125 – 1.130
pH	8.5 – 10.5
Reserve Alkalinity, 100%	+20.0

#### Typical Physical Properties:

BP @ 760 mm Hg (50%)	107.22 °C
Flash point	None
VP mm Hg (50% @ 20°C)	13.31
Thermal Conductivity (50% @ 20°C)	0.225
Specific Heat (50% @ 20°C)	0.81
Viscosity, cP (50% @ 20°C)	3.37

Typical physical properties of aqueous solutions:

FP °C	V%	BP °C
-4.4	10	100.56
-9.4	20	101.67
-12.8	25	102.78
-16.1	30	103.33
-20.0	35	104.44
-25.0	40	105.56
-36.7	50	107.22

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