

PRODUCT DESCRIPTION

Permafrost E is an ethylene glycol-based heat transfer fluid for use in lower temperature 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 140 °C in the following applications:

Direct Fired Line Heaters
High/Low Speed Stationary Engines
Heat Tracing

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	8.0 – 9.0
Reserve Alkalinity, 100%	>10

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

Arch Distribution Inc. fully warrants that Permafrost™ E is suitable for the above applications and temperature guidelines where there is a requirement for low silicate-based heat transfer fluids that do not contain nitrite. Each Permafrost product is tested prior to packaging and shipping to ensure conformity; however, suitability for the intended purpose of this product remains the responsibility of the user. Product life is also subject to appropriate operating parameters and implementation of a suitable fluid testing program for peak performance. For more information, please contact your Permafrost™ representative or Arch Distribution Inc.

Permafrost™ heat transfer fluids are produced in our blending facility with Lab Grade 2 quality water to ensure product performance and specifications. If undiluted products are purchased, water quality must be equivalent or greater than distilled or deionized in order to maintain performance guarantees. If you are unsure of your water quality, please contact Arch Distribution for testing and recommendations. If water of unsuitable quality is used for dilution, Arch Distribution cannot be held liable for potential damage.



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