

PRODUCT DESCRIPTION

Permafrost Cav Pro (cavitation protection) 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 an exceptional coolant while protecting wet-sleeve liners in natural gas fired 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 Cav Pro 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 Cav Pro 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 — Permafrost Cav Pro 100, v%

Ethylene Glycol, V%	≥ 92
Inhibitors	≥ 8
Colour	Bright blue or customized
Specific Gravity	~ 1.125 – 1.130
pH	~ 8.5 – 10.5
Reserve Alkalinity, 100%	~ 15.0 min

Typical Physical Properties Permafrost Cav Pro 50:

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™ Cav Pro meets or exceeds ATSM Standard D6210 for use in Heavy Duty applications and ASTM D4985 for low silicate-based coolants. 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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