



DATA SHEET

PREMIUM PG-HTF

Propylene Glycol-Based Heat Transfer Fluid Concentrate

This product is designed to perform at higher temperatures than standard heat transfer fluids can handle.

Premium PG-HTF concentrate is formulated with propylene glycol and a high-performance inhibitor package for industrial applications. The inhibitor system is based on a high-phosphate, multicomponent formulation, comparable to major brands of heavy-duty, propylene glycol-based heat transfer fluids.

APPLICATIONS

- HVAC systems
- Process cooling/heating
- Solar heating
- Refrigeration warehouse floor heating
- Thermal energy storage
- Ice skating rinks
- Sidewalk snow melting systems

FREEZE AND BURST PROTECTION

Premium PG-HTF has a recommended operating temperature range of -60° F to 325° F. If the system contains aluminum heat exchangers or other aluminum peripheral components, the maximum operating temperature should not exceed 215° F.

CORROSION PROTECTION

Premium PG-HTF exceeds the performance requirements for ASTM D1384, outlined in ASTM D3306, and shields metals from acidic attack and rust formation. It is also completely compatible with most plastics, elastomers and types of rubber.

In addition, its effective buffering system neutralizes acids formed by the normal thermal and oxidative degradation of glycols, maintaining the pH in its optimal range.

BENEFITS

- Made of a propylene-glycol base that reduces toxicity and disposal requirements
- Operates at temperatures from -60° F to 325° F
- Contains a unique additive package to:
 - Control corrosion of copper, brass, solder, steel, cast iron, and aluminum
 - Prevent fouling of heat transfer surfaces
 - Buffer the pH to keep it in the optimum operating range

Premium PG-HTF Characteristics

Composition (Concentrate)

Propylene Glycol 92% by weight minimum

Inhibitors & proprietary ingredients 8% by weight maximum

Color Yellow (or custom dye option)

pH

50% Solution 9.5-10.8

Specific Gravity @60°F 1.05-1.06

Chloride, ppm <25

Phosphate, ppm >10,000

Tolyltriazole, ppm >1,500

Viscosity, cSt @ 40°C/104°F >20

Tolyltriazole, ppm >1,500

Thermal Conductivity BTU/(h·ft·°F) ~0.127 @ 215°F

Specific Heat BTU/°F/lb ~0.74 @ 215°F