

ADDITIVES INC.

Heat Transfer Fluids

Additives Inc. specializes in the development and the production of propylene and ethylene glycol-based heat transfer fluids. The use of Additives Inc. Add Paks and heat transfer fluids systems in your products and customers' systems will ensure: consistent product quality, economy, ease of blending corrosion prevention, long-life dependability, and minimization of laboratory time and expense. Our chemists have developed a variety of stand-alone Add Paks for: glycol-based heat transfer fluids, glycol-based safety hydraulic fluids, and alkylate-based high-temperature fluids. We can adjust formulations to meet your specific needs for performance enhancing additives, in both light- and heavy-duty systems.

Quality Control

Each individual batch of heat transfer fluid is rigorously tested for conformance with product and industry specifications prior to storage, packaging, or shipment. A laboratory analysis is thoroughly conducted by Additives Inc, and a Certificate of Analysis for each lot is produced and is available to customers.

Technical Support

Our laboratories will conduct a complete analysis of samples of our fluids from your systems quarterly. Simply send a one-pint sample to our laboratory and we will send you a written report including any recommendations on needed fluid maintenance actions. We will provide make-up inhibitor solutions as needed. We will also assist by testing samples to aid in problem solving efforts at any time.

HITEMP-100

*Inhibited and Stabilized High-Temperature
Alkylate-Based Heat Transfer Fluid*

Product Description and Applications

HITEMP-100 is a mixture of linear alkybenzenes in the C₁₀ - C₁₆ range containing a high-temperature corrosion inhibition and thermal stabilization package. The proprietary additive system was developed by Additives Inc., which specializes in anti-corrosion and stabilization systems for automotive antifreeze, HVAC heat transfer fluids, industrial thermal fluids, and heavy-duty engine lubricating oils.

Inhibited/stabilized HITEMP-100 possesses excellent heat transfer characteristics, with a high specific heat and thermal conductivity. With its high flash and boiling points and low pour point, it may be used in continuous operation over a temperature range of 0° F to 600° F. HITEMP-100 functions efficiently at atmospheric and low pressures, eliminating the need for high pressures to obtain uniform process heat transfer.

HITEMP-100 has a high level of resistance to thermal and oxidative degradation, minimizing fouling and sludging and providing a fluid life of many years under normal operating conditions. It is clearly superior to heat transfer oils (mineral oils) in this respect. Additives Inc.'s outstanding inhibitor package provides outstanding corrosion protection to all metals commonly used in process heating/cooling systems.

HITEMP-100 is typically used in high-temperature process systems in which both heating and cooling are required. It is used in chemical processing equipment, asphalt heating operations, rubber and plastics die and mold operations, refinery heat transfer systems, laminating and calendering rolls, drying ovens, zinc and aluminum die-casting, etc.

Product Specifications

Appearance	Light, clear yellow to amber liquid
Specific Gravity (60°F)	0.895
Refractive Index (25°F)	1.510
Viscosity (100°F)	25cst
Pour Point	-40°F
Flash Point	375°F
Boiling Range	
Initial	568°F
90%	733°F
Neutralization Number (Mg KOH/Gram)	0.06
Water (ppm)	155
Coefficient of Thermal Expansion at 200°C	0.000605
Heat Capacity 100°F	0.511 Btu/lb°F
500°F	0.690 Btu/lb°F

Technical Contact Information

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