



KOSTChill EG Heat Transfer Fluid

KOSTChill EG Heat Transfer Fluid is a fully-formulated ethylene glycol based heat transfer fluid containing an inhibitor and additive package that controls corrosion of metals, helps prevent scaling and the fouling of heat transfer surfaces and buffers the pH to maintain it in the optimum operating range. It meets or exceeds ASTM D 1384, which is the accepted industry standard for multi-metal corrosion test, for steel, cast iron, aluminum, copper, brass and solder. This fluid is also compatible with most plastics, elastomers and types of rubber. The multi-component inhibitor system formulation makes KOSTChill EG Heat Transfer Fluid equivalent or better in terms functionality and performance to the very best national brands on the market today. It is also stable when mixed with water containing up to 350 ppm total hardness.

KOSTChill EG Heat Transfer Fluid has a recommended operating temperature range of -60°F to 250°F when mixed with appropriate water concentrations. To obtain adequate freeze protection, select a glycol concentration with a freeze point at least 5°F below the lowest anticipated ambient temperature. It should never be diluted below 25% to maintain adequate corrosion protection.

KOST USA recommends the use of deionized or distilled water for dilution. However, tap water, well water or city water may be used when it meets the quality standards. KOSTChill EG Heat Transfer Fluid contains ingredients that help prevent water hardness compounds from reacting with the inhibitors/additive package to form precipitates, which can form corrosion promoting and heat transfer limiting deposits. It is recommended that water with no more than 350 ppm hardness be used to dilute concentrate or as make-up water for systems. Chlorides and sulfates are usually present in municipal water and should be limited to levels no greater than 50 ppm.

KOSTChill EG 50/50 Heat Transfer Fluids carries the same performance characteristics as the KOSTChill EG, but has already been diluted with deionized water for ready to use requirements. Other dilution concentrations are available upon request.

Applications

- HVAC Systems- Freeze, Burst, Corrosion Protection
- Solar Heating
- Thermal Energy Storage
- Sidewalk Snow Melting Systems
- Process Cooling and Heating
- Refrigeration warehouse floor heating
- Ice Rinks
- Cold Room Dehumidify

Typical Product Specifications	Full Strength	50/50
Ethylene Glycol, % wt	96%	48
Inhibitors and Water, % wt	4%	52
Specific Gravity (60/60 °F)	1.130	1.070
pH of Solution	9.0 - 10.2	8.7 – 10.0
Reserve Alkalinity, ml	14 min	7 min
Thermal Conductivity (BTU/hr-ft ³) @ 180°F		0.241
Specific Heat (BTU/lb-°F)@ 180 °F		0.849
Nitrite (NO ₂), ppm	350 min	175 min
Other chemical and engineering specifications are available upon request		
Product #	2520	2521

REV. Date: September 22, 2006

KOST USA, INC. • 8118 Corporate Way - Suite 105 • Mason, OH 45040
Phone 800-661-9391 • Fax 513-492-5555
www.kostusa.com

Page 1
Made in the  U.S.A.

All reasonable care has been taken to ensure that the information herein is accurate as of the date of printing. Freedom to use any patent owned by KOST USA, Inc. or others is not to be inferred from any statement contained herein. The test results listed are typical properties only. KOST strives for improvement in all of our products. Formula and blending changes may result in slight color and/or appearance changes.