



BIOCHILL®

PG HD

Heat Transfer Fluid

KOST USA's Heat Transfer Fluids have been instilled in the following systems:

- Soldier Field
- Busch Stadium
- Duke Power Plants
- Sam Adams Brewery
- Nutra Sweet
- Coca-Cola
- Daisy Foods
- Smuckers
- Hollywood Casino
- Meijer Food
- Wegman's Food
- Arnold Air Force Base
- U.S. Dept of Defense
- Cincinnati Union Terminal
- US Army Facilities
- Kraft/Heinz Plants
- PepsiCo
- Nestle
- Facebook Data Centers

BioChill® PG HD

A fully formulated virgin bio-based propylene glycol heat transfer fluid containing an inhibitor and additive package that controls the 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. Used for heavy-duty applications, BioChill® PG HD has a recommended operating temperature range of -50° F to 325° F when mixed with appropriate water concentrations. It provides both freeze and burst protection for systems exposed to very low temperatures.

Benefits:

- Fluid is dyed blue-green for leak detection purposes
- Silicate free
- Meets the Heat Transfer Fluid ASTM D8039 requirements standards for multi-metal corrosion protection and for D1881, foam tendency testing for ready-to-use heat transfer fluids
- Available in dilutions ranging from 30% to 70%
- Significant reduction in GHG during production
- Potential LEED innovation credits
- Renewable sustainable bio-based product

BioChill® PG HD inhibited virgin bio-based propylene glycol heat transfer fluid is manufactured with the highest quality raw materials. Each KOST® USA fluid is specially formulated with a state-of-the-art inhibitor package that prevents corrosion, which minimizes fluid expense and extends fluid life. Please note that we recommend diluting only with RO (reverse osmosis) or distilled water to maintain corrosion protection.

Typical Applications:

Solar Heating
Chemical Processing
Thermal Energy Storage
HVAC Systems
Sidewalk and Playing Field Subsurface Snow Melting
Process Heating & Cooling
Refrigeration Warehouse Floor Heating
Ice Rinks
Computer Cooling Systems
Cooling Water for Gas Turbine Power Systems
Boiler Systems
Hydronic Heating or Cooling Systems



Think of our products as
Liquid Assets.™

No matter the heating and cooling needs, KOST® USA's family of glycol-based heat transfer fluids offers a solution that will exceed your requirements.

At KOST® USA, we can customize products to meet all engineering requirements where glycol-based products are required.

It's more than business...
It's personal.

KOST® USA, Inc. is the largest family-owned manufacturer, supplier, and marketer of antifreeze and functional fluids in the United States. Founded in 1985, our headquarters and manufacturing facility is strategically located in Cincinnati, Ohio. We build our customers' brands and our brands through high-performance products and superior service. Committed to quality, KOST USA is ISO 9001:2015 Certified, ASTM Standards Lab, Global Sourcing, NSF, GHS, and FM Approved.

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TYPICAL PROPERTIES	BioChill® PG HD Concentrate	BioChill® PG HD 70%	BioChill® PG HD 60%	BioChill® PG HD 50%	BioChill® PG HD 40%	BioChill® PG HD 30%
Propylene Glycol, % Weight	95%	70%	60%	50%	40%	30%
Corrosion Inhibitors and Water % Weight	5%	30%	40%	50%	60%	70%
Color	Blue Green	Blue Green	Blue Green	Blue Green	Blue Green	Blue Green
ASTM Corrosion Specification	D8039	D8039	D8039	D8039	D8039	D8039
pH of Solution	Refer to Dilution*	9.2-10.6	9.2-10.6	9.2-10.6	9.2-10.6	9.2-10.6
Reserve Alkalinity, ml	14.3 min	10.3 min	8.9 min	7.4 min	5.9 min	4.5 min
Pounds per Gallon (68°F)	8.80	8.82	8.80	8.75	8.69	8.60
Boiling Point °F (°C)	Refer to Dilution	230° (110°)	225° (107°)	222° (106°)	219° (104°)	216° (102°)
Freeze Point °F (°C)	Refer to Dilution	Below -60° (-51°)	-46° (-43°)	-28° (-33°)	-7° (-22°)	9° (-13°)

SHIPPING INFORMATION

Slight changes to the weight of our packaging materials may effect the gross weight of our finished goods.

Part Number	Bulk Pail Drum Tote	12024 N/A 12026 12025	11077 N/A 12028 12027	12029 N/A 12031 12030	12032 N/A 12034 12033	12035 N/A 12037 12036	10095 N/A 10096 12038
Gross Container Weight	Drum Tote	505# 2547#	507# 2553#	505# 2547#	503# 2533#	499# 2517#	494# 2492#
Gross Pallet Weight	Drum Tote	2057# 2547#	2061# 2553#	2057# 2547#	2046# 2533#	2033# 2517#	2013# 2492#

Quantity Per Pallet	Drum Tote	4 1
Volume Per Package	Drum Tote	55 Gallons 275 Gallons
Package Dimensions	Drum Tote	23.5"D x 34.5"H 49" x 40" x 46"
Pallet Dimensions	Drum Tote	48" x 40" x 39.5" 49" x 40" x 46"

**pH of Concentrate cannot be accurately measured due to the lack of water needed to obtain a reliable pH measurement. When diluting any BioChill® products, it is recommended that RO or distilled water is used.*

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. Formula and blending changes may result in slight color and appearance changes. SDS can be found at kostusa.com



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