



BIOCHILL®

PG FG

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 FG

Virgin bio-based propylene glycol heat transfer fluid containing a specially designed inhibitor package that helps prevent corrosion. BioChill® PG FG is registered by NSF as an HT-1 product. The fluid is manufactured with ingredients classified as Generally Recognized as Safe (GRAS) by the FDA, and is recommended for use within Food & Beverage processing areas where incidental food contact is possible. Burst protection to -50°F when the concentration is 35% or higher.

Benefits:

- Excellent low temp pumpability
- Fluid is undyed and near colorless
- Silicate free and meets the Heat Transfer Fluid ASTM D8039 corrosion testing, ensuring multi-metal protection when a minimum of 30% is used
- Lower environmental toxicity
- Potential LEED Innovation credits
- Renewable, sustainable bio-based product
- Significant reduction in GHG during production

BioChill® PG FG inhibited virgin bio-based propylene glycol-based 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. BioChill fluid is silicate free and meets ASTM standards; and is available in dilutions ranging from 30% to 70% PG. Please note that we recommend diluting only with RO (reverse osmosis) or distilled water to maintain corrosion protection.

Typical Applications:

HVAC Systems
Food & Beverage Processing
Pharmaceutical Processing
Process Heating & Cooling
Sidewalk & Playing Field Subsurface Heating
Ice Rinks
Computer Cooling Systems
Geo Thermal
Refrigeration Warehouse Floor Heating
Cold Room Dehumidify
Irrigation Systems
Cooling Towers & Chillers
Fire Sprinkler 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 FG Concentrate	BioChill® PG FG 70%	BioChill® PG FG 60%	BioChill® PG FG 50%	BioChill® PG FG 40%	BioChill® PG FG 30%
Propylene Glycol, % Weight	94%	70%	60%	50%	40%	30%
Corrosion Inhibitors and Water % Weight	6%	30%	40%	50%	60%	70%
Color	Clear	Clear	Clear	Clear	Clear	Clear
NSF Number	159759	159757	159755	159760	159754	159756
ASTM Corrosion Specification	D8039	D8039	D8039	D8039	D8039	D8039
Specific Gravity (68°F)	1.0544	1.0567	1.0539	1.0486	1.0409	1.0313
pH of Solution	Refer to Dilution*	9.0-10.8	9.0-10.8	9.0-10.8	9.0-10.8	9.0-10.8
Reserve Alkalinity, ml	10.6 min	7.6 min	6.5 min	5.4 min	4.3 min	3.3 min
Pounds per Gallon (68°F)	8.79	8.81	8.78	8.74	8.68	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° (-21°)	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	12005 N/A 12007 12006	12008 N/A 12010 12009	12012 N/A 12014 12013	12015 N/A 12017 12016	12018 N/A 12020 12019	12021 N/A 12023 12022
Gross Container Weight	Drum Tote	505# 2544#	506# 2549#	504# 2543#	502# 2531#	499# 2514#	494# 2491#
Gross Pallet Weight	Drum Tote	2055# 2544#	2059# 2549#	2053# 2543#	2044# 2531#	2031# 2514#	2013# 2491#
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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