



# PG FG LEED Heat Transfer Fluid Technical Data Sheet

## Product Overview

Virgin bio-based propylene glycol heat transfer fluid containing a specially designed inhibitor package that helps prevent corrosion. **SOLUTHERM™ PG FG LEED** 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, for use in food and beverage manufacturing facilities where incidental food contact is possible. **PG FG LEED** is a USDA Certified Biobased product made with renewable materials and provides burst protection to -50°F (-45.5°C) when the concentration is 35% or higher.

## Product Technical Information

**SOLUTHERM™ PG FG LEED** inhibited virgin propylene glycol-based heat transfer fluid is manufactured with proprietary inhibitor chemistry that helps prevent corrosion, which minimizes fluid expense. **SOLUTHERM™** fluid is silicate-free and meets Heat Transfer Fluid ASTM D8039 standard for corrosion protection and bio-based content. Available in dilutions 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.

## Performance Features and Benefits

- Excellent low temp pumpability product
- Fluid is undyed and near colourless
- Silicate free
- Meets the Heat Transfer Fluid ASTM D8039 corrosion specification, ensuring multi-metal protection when a minimum of 30% is used
- Potential LEED Innovation credits
- Renewable, sustainable bio-based product
- Significant reduction in GHG



CONTACT US:  
CUSTOMERSERVICE@KOSTUSA.COM  
1-800-661-9391

## Product Use

**SOLUTHERM™ PG FG LEED** is intended for use in Food & Beverage processing applications where a bio-based propylene glycol coolant is required. Before initial fill with **PG FG LEED**, the system should be prepared by an appropriate flushing procedure followed by complete removal of flushing fluid.

Once filled, it is natural for **PG FG LEED** thermal management fluid inhibitor levels to slowly depreciate over time. The fluid may be maintained in the system with proper fluid monitoring and the addition of recommended boosters at rates provided by our fluid analysis program.

Find out more at [www.solutherm.com/services](http://www.solutherm.com/services).

## Storage and Disposal

Store **SOLUTHERM™ PG FG LEED** in the original container in a cool, dry environment away from direct sunlight. When properly stored, the product is suitable for use for up to 2 years after manufacture. Do not use galvanized steel for storage or handling systems. Refer to SDS for product safety information. Discard unused or end of life product in accordance with local, regional, or national regulations.

## Specifications:

The corrosion inhibitor package in **SOLUTHERM™ PG FG LEED** Heat Transfer Fluid is designed to meet and exceed corrosion protection via the following classification and specifications:

- ASTM D8039
- ASTM D6866
- USDA BioPreferred®



## Advantages/Product Highlights

- GRAS by FDA



## PRODUCT OFFERING INCLUDES:

TYPICAL PROPERTIES	SOLUTHERM™ PG FG LEED Concentrate	SOLUTHERM™ PG FG LEED 70	SOLUTHERM™ PG FG LEED 60	SOLUTHERM™ PG FG LEED 50	SOLUTHERM™ PG FG LEED 40	SOLUTHERM™ PG FG LEED 30
Propylene glycol % weight	95%	70%	60%	50%	40%	30%
Corrosion inhibitors and water % weight	5%	30%	40%	50%	60%	70%
Colour	Clear					
ASTM Corrosion specification	D8039					
pH of solution	Depending on 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 (20°C)	8.79	8.81	8.78	8.74	8.68	8.60
Boiling point	Depending on dilution	230°F (110°C)	225°F (107°C)	222°F (106°C)	219°F (104°C)	216°F (102°C)
Freezing point	Depending on dilution	Below -60°F (-51.1°C)	<-60°F (<-51.1°C)	-28°F (-33.6°C)	-7°F (-21.4°C)	9°F (-13.0°C)



Find out more ►  
[www.solutherm.com](http://www.solutherm.com)



CONTACT US:  
CUSTOMERSERVICE@KOSTUSA.COM  
1-800-661-9391