



# PG FG Heat Transfer Fluid Technical Data Sheet

## Product Overview

Virgin propylene glycol-based heat transfer fluid containing a specially designed inhibitor package that helps prevent corrosion. **SOLUTHERM™ 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.

## Product Technical Information

**SOLUTHERM™ PG FG** inhibited virgin propylene glycol-based heat transfer fluid is manufactured with proprietary inhibitor chemistry that helps prevent corrosion, which minimizes fluid expense and extends fluid life. **SOLUTHERM™** fluid is silicate free and meets ASTM D8039 standard for corrosion protection; 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.

## Performance Features and Benefits

- Ready-to-use
- Excellent low temp pumpability
- Fluid is undyed and near colourless or can be dyed blue by request
- Silicate free
- Meets the Heat Transfer Fluid ASTM D8039 corrosion specification, ensuring multi-metal protection when a minimum of 30% is used
- Compatible with most plastics, elastomers and types of rubber, not suitable with PVC
- Virgin propylene glycol
- Burst protection to -50°F (-45.5°C) when the concentration is 35% or higher
- Ingredients classified as GRAS by FDA



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## Product Use

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

Once filled, it is natural for **PG FG** 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** 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** Heat Transfer Fluid is designed to meet and exceed corrosion protection via the following Classification and Specifications:

- ASTM D8039

## Advantages/Product Highlights

- GRAS by FDA



## PRODUCT OFFERING INCLUDES:

TYPICAL PROPERTIES	SOLUTHERM™ PG FG Concentrate	SOLUTHERM™ PG FG 70	SOLUTHERM™ PG FG 60	SOLUTHERM™ PG FG 50	SOLUTHERM™ PG FG 40	SOLUTHERM™ PG FG 30
Propylene glycol % weight	94%	70%	60%	50%	40%	30%
Corrosion inhibitors and water % weight	6%	30%	40%	50%	60%	70%
Colour	Clear					
ASTM Corrosion specification	D8039					
Specific gravity (20°C)	1.0544	1.0567	1.0539	1.0486	1.0409	1.0313
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)



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