



# PG HD Heat Transfer Fluid Technical Data Sheet

## Product Overview

A ready-to-use virgin propylene glycol-based heat transfer fluid containing a specially designed inhibitor package that controls the corrosion of metals, helps prevent scaling and the fouling as evident by ASTM 8040 analysis and buffers the pH to assist in maintaining in the optimum operating range. Used for heavy-duty applications, **SOLUTHERM™ PG HD** has operating temperature ranges from product freeze point up to 325°F (162.7°C)\* when mixed with appropriate water concentrations. It provides both freeze and burst protection for systems exposed to very low temperatures.

## Product Technical Information

**SOLUTHERM™ PG HD** 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\*. This product is silicate-free and meets Heat Transfer Fluid ASTM D8039 standard. 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

- Fluid is dyed fluorescent pink for leak detection purposes
- Silicate free
- Meets the Heat Transfer Fluid ASTM D8039 standard for multi-metal corrosion protection and foaming tendency for ready-to-use heat transfer fluids when a minimum of 30% is used
- Available in dilutions ranging from 30% to 70%
- Operating temperature of -60°F to 325°F (-51.1°C to 162.7°C)\*

\*As compared to a light-duty PG heat transfer fluid



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## Product Use

**SOLUTHERM™ PG HD** is intended for use in heavy-duty processing applications where a propylene glycol-based coolant is required. Before initial fill with **PG HD**, 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 HD** 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 HD** 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 HD** Heat Transfer Fluid is designed to meet and exceed the following industrial specification:

- ASTM D8039

## PRODUCT OFFERING INCLUDES:

| TYPICAL PROPERTIES                      | SOLUTHERM™<br>PG HD<br>Concentrate | SOLUTHERM™<br>PG HD<br>70 | SOLUTHERM™<br>PG HD<br>60 | SOLUTHERM™<br>PG HD<br>50 | SOLUTHERM™<br>PG HD<br>40 | SOLUTHERM™<br>PG HD<br>30 |
|---|------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Propylene glycol % weight               | 95%                                | 70%                       | 60%                       | 50%                       | 40%                       | 30%                       |
| Corrosion inhibitors and water % weight | 5%                                 | 30%                       | 40%                       | 50%                       | 60%                       | 70%                       |
| Colour                                  | Pink                               |                           |                           |                           |                           |                           |
| ASTM Specification                      | D8039                              |                           |                           |                           |                           |                           |
| pH of solution                          | Depending on 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 (20°C)           | 8.80                               | 8.82                      | 8.80                      | 8.75                      | 8.69                      | 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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