

Overview

PGS is a heavy-duty, nitrated, propylene glycol-based heat transfer fluid (HTF) specifically designed to be used in stationary engine applications. It contains a full complement of heavy-duty inhibitors, including a minimum of 2400 ppm Nitrite (as NO₂) in concentrate. The formulation is silicate-free, and phosphate-free which minimizes the problems associated with hot surface scaling that may be experienced with other fluids. PGS provides outstanding protection from cavitation erosion/corrosion in water pumps and wet sleeve cylinder liners, as well as excellent overall corrosion protection.

Product Benefits

PGS contains an advanced inhibitor system that provides a wide range of inhibitors which protect all system metals. These inhibitors combined with the propylene glycol base, give year-round protection against freeze-ups, boil-overs and engine cooling system corrosion. This industrial HTF includes ingredients to disperse minor oil leakage, prevent fouling, control hot surface scaling and it will not damage paint finishes or rubber parts.

Product Features:

- Advanced inhibitor system.
- Meets the performance requirements of ASTM D6210, ASTM D4985, and ASTM D3306, including D1384.
- Protects all system metals.
- Year-round protection against freeze-ups, boil-overs, and engine cooling system corrosion.
- Helps prevent scaling and fouling of heat transfer surfaces.

Applications:

- Oil & Gas industry
- Natural gas processing
- Power generation
- Compressor engines
- Heavy duty industry applications

Recommended for use in the following applications but not limited to these exclusively:

- Cummins CES14603
- Cummins 90T8-4
- John Deere H24
- EMD M.I. 1748E
- Caterpillar DEAC
- Waukesha 4-1974D





PGS
PROPYLENE GLYCOL-BASED
STATIONARY ENGINE HEAT TRANSFER FLUID

Characteristic	Specification	Company Typical	ASTM Method
Chloride (ppm)	25 maximum	2	D3634
Specific gravity, 60/60°F	1.05-1.06	1.055	D1122
Nitrite (ppm)	2400 minimum	2700	D5827
Boiling Point, 50% V/V	> 212°F/100°C	222°F	D1120
Freezing Point, 50% V/V	< -20°F/-29°C	-31°F	D1177
Ash content, mass %	2.5 maximum	2.0	D1119
pH, 50% V/V	9.5-10.8	10.3	D1287
Reserve alkalinity*	None specified	10 minimum	D1121
Water mass %	None specified	3.0 maximum	D1123
Color	Distinctive	Blue	--
Storage stability	None specified	> 1 year	--

*Reserve alkalinity (RA) is a value agreed between the customer and supplier. The RA listed above is the typical for the additive package being used.

Physical Properties		
Glycols	Mass %	95.0 Minimum
Corrosion Inhibitors and Water	Mass %	5.0 Maximum
Flash Point	°F	>200°F
Weight per gallon at 60° F-16° C	lbs.	8.8 Minimum
Silicates	Mass %	Nil

% PG (Volume)	Freezing Point		Boiling Point*	
	°F	°C	°F	°C
50%	-31	-35	222	106
60%	-59	-51	225	107

*Boiling point shown at atmospheric pressure. Add 40°F for 15 psi radiator cap

Water Quality Requirements

Water used to dilute the PGS concentrate can be low-hardness, city water, or well water, although the use of deionized water is best. It is recommended that water with no more than 350 ppm hardness be used to dilute concentrate or be used as make-up water. For optimal performance, water hardness should be below 170 mg/L as CaCO3.

This product contains no warranties. Customer is responsible for determining whether product and the information in this document are appropriate for Customer's use.

Please visit <https://www.crystal-clean.com/htf-disclaimer> for full details.

Additional Water Quality Limits (Maximum)

Chlorides	40 ppm
Sulfate	100 ppm
pH	5.5 to 9.0
Iron	1.0 ppm

NOTE: Used Heat Transfer Fluids in most states are not hazardous unless it contains more than 5 ppm of lead. We recommend that spent fluid **never** be disposed of by dumping into a storm sewer or onto the ground. Instead, contact your local municipality for instructions on where to and how to properly dispose of this fluid and protect our environment.