

HEAT TRANSFER FLUIDS

The PURUS® Heat Transfer Fluid product line is a family of inhibited PG and EG fluids. All PURUS® fluids contain specially formulated inhibitor packages that provide protection against corrosion and improved operating efficiency over water or glycol alone.

PURUS® fluids in Mechanical HVAC applications are widely used for heating applications, secondary cooling, for burst and freeze protection of pipes, and for various deicing, defrosting, and dehumidifying applications.

While water is an economical and thermodynamically superior heat transfer fluid, it is susceptible to deficiencies. Using properly inhibited glycol based heat transfer fluids overcome these deficiencies. Glycol based heat transfer fluids fully formulated with inhibitors offer the most effective combination of both corrosion protection and freeze protection.



PURUS® PG

PURUS® PG is a propylene glycol-based fluid that contains a specially formulated package of industrial inhibitors that help prevent corrosion. Because propylene glycol fluids have low acute oral toxicity, PURUS® PG is often used in applications where incidental contact with food or beverage products could potentially occur. Available in 55 gallon drums of Concentrate and 50/50. This product is clear or colorless.



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 area



PURUS® PGHD

PURUS® PGHD heat transfer fluid is a formulation of 95-96% propylene glycol and a specially formulated package of industrial inhibitors. PURUS® PGHD is often used in higher temperature applications and solar systems and is well suited for HVAC applications because its inhibitor package offers additional corrosion protection for systems containing copper components. Available in 55 gallon drums of Concentrate and 50/50. This product is fluorescent yellow.



PURUS® EG

PURUS® EG is an ethylene glycol-based fluid that is widely used for heating applications and secondary cooling systems, for burst and freeze protection of pipes, and for various deicing, defrosting, and dehumidifying applications. Available in 55 gallon drums of Concentrate and 50/50. This product is fluorescent pink and can be used for leak detection.

PURUS® industrial fluids offers a wide range of products in Mechanical HVAC Applications such as Heat Exchangers, Boilers, Cooling Towers and Chillers, Insulation or Trace Line Heating for Gathering and Transmission Lines, and Tank and Vessel Heating.

MECHANICAL HVAC PRIMARY HVAC EQUIPMENT WHERE HTF'S ARE USED

	Chillers	Heat Pumps
Function / Purpose	Refrigeration system that cools a process fluid or dehumidifies air using a vapor compression or absorption cycle to cool.	Device that transfers heat energy from a source of heat to a destination called a "heat sink"
Primary Applications	<ul style="list-style-type: none"> • Thermal energy storage aka Ice making • Ice rinks • Hospitals • Schools • Large buildings • Power plants • Petroleum refineries • Petrochemical plants • Natural gas processing plants • Food processing plants • Other industrial facilities • Additional process cooling for cooling towers 	<ul style="list-style-type: none"> • Geothermal heating • Groundwarmers • Radiant floor heating – hydronic • Snowmelt systems

TYPICAL PROPERTIES	PURUS PG <small>NSF</small>	PURUS PGHD	PURUS EG
Glycol, % volume	96-97	95-96	96-97
Inhibitors and Water, % volume	3-4	4-5	3-4
Color	Clear/Colorless	Fluorescent Yellow	Fluorescent Pink
Specific Gravity (60/60° F)	1.050 – 1.060	1.058 – 1.068	1.125 – 1.135
pH of Solution Containing 50% Glycol	9.0 – 10.0	9.5 – 10.5	9.0 – 9.6
Reserve Alkalinity, ml	10 ml min	15 ml min	11 ml min
Burst Protection at 50/50 Down to, (F)	-60	-60	-60

The family of inhibited glycol-based heat transfer fluids are manufactured with the highest quality raw materials. Each is specially formulated with state-of-the-art inhibitor packages that prevent corrosion, which minimizes fluid expense and extends fluid life.

For More Information on PURUS® Heat Transfer Fluids
Contact your authorized PURUS® Distributor
or visit www.purusproducts.com