CEQUITHERM HP®

VAC HEAT TRANSFER FLUID

EQUITHERM[®] Manufactured by: Solvents & Petroleum Service, Inc. 1405 Brewerton Road | Syracuse, NY 13208

Propylene Glycol





SPECIFICATIONS

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HVAC Heat Transfer Fluid | Propylene Glycol

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EQUITHERM® HP s a virgin grade propylene glycol-based heat transfer fluid that utilizes high performance industrial inhibitor chemistry to guarantee maximum heat transfer efficiency and economy in closed-loop multi-metal systems. EQUITHERM® HP can increase your systems performance and longevity while decreasing long-term maintenance costs.

FEATURES

APPLICATIONS

\bigcirc	Virgin Grade Glycol-Based	HVAC Systems Freeze, Burst, Corrosion Protection	Passes ASTM D1384
\bigcirc	For Use with Water-based or Glycol-based HTFs	Thermal Energy Storage	Corrosion Test for Engine Coolants in Glassware Passes ASTM D1881
\bigcirc	Safe for All Common Non- Metallic Components	Process Cooling & Heating	Foaming Tendency Test
\bigcirc	Free from Nitrites, Amines, and Silicates	Refrigeration Warehouse Floor Heating	Operating Temperature of -50°F to 325 °F
\bigcirc	Scale Inhibitors/Dispersants Prevent Harmful Deposits	Ice Rinks	Hard Water Stability
\bigcirc	Foam Control	Computer Cooling Systems	
\bigcirc	Formulated with Phosphates	Sidewalk & Playing Field Subsur- face Heating	
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	Available in Bulk, Mini-Bulk, Drums and Totes	*If your application is not listed, contact SPS to find out how we can service your needs.	

Typical Properties	Concentrate	60/40	50/50	40/60	30/70
Propylene Glycol, % wt	93.6	57.3	48.0	38.6	29.0
Inhibitors + Water, % wt	6.4	42.7	52.0	61.4	71.0
Density g/mL 68°F	1.050 (1.035-1.065)	1.046 (1.031-1.061)	1.043 (1.028-1.058)	1.034 (1.019-1.049)	1.022 (1.007-1.037)
pH, range (10.0-11.0)	10.9	10.8	10.6	10.5	10.3
Reserve Alkalinity, mL (min)	5.95 (>5.0)	3.7 (>3.0)	3.3 (>2.5)	2.5 (>1.5)	1.7 (>1.3)

The following metal test specimens were used:

1. *Steel*, UNS G10200 (SAE 1020), Chemical composition of the carbon steel is as follows: carbon, 0.17 to 0.23%; manganese, 0.30 to 0.60%; phosphorous, 0.040% maximum; sulfur, 0.050% maximum.

- 2. Copper, conforming to UNS C11000 (SAE CA110) of UNS C11300 (SAE CA113). Cold-rolled.
- 3. Brass, conforming to Alloy UNS C26000 (SAE CA 260).
- 4. Solder, A brass specimen coated with solder conforming to Alloy Grade 30A (SAE 3A).
- 5. *Cast Aluminum*, conforming to Alloy UNS A23190 (SAE 329).
- 6. Cast Iron, conforming to Alloy UNS F10007 (SAE G3500).

Metal	Beaker 1 (mg)	Beaker 2 (mg)	Average Weight Loss(mg)	ASTM Limit* (mg)
Copper	-0.83	-0.03	-0.43	10
Solder	6.00	12.90	9.45	30
Brass	1.67	1.87	1.77	10
Steel	0.23	-1.97	-0.87	10
Cast Iron	4.07	-1.13	1.47	10
Cast Aluminium	8.13	7.83	7.98	30
pH Before	10.17	10.17		
pH After	9.56	9.72		
Appearance Before	Clear; Colorless	Clear; Colorless		
Appearance After	Clear; Amber	Clear; Dark Amber		
Notes:				
*Limits published in ASTM D3306 Standard Specification for Glycol Base Engine Coolant for Automobile and Light-Duty Service. These performance limits are also required for heavy duty coolants and recycled coolants (ASTM D6471 or D6472). ASTM D1384 is only a test				

method.

A negative number indicates a net weight gain after correcting for the cleaning bank. Refer to the published method for information on the calculation.



HVAC Heat Transfer Fluid | Propylene Glycol TECHNICAL SERVICE GUIDE

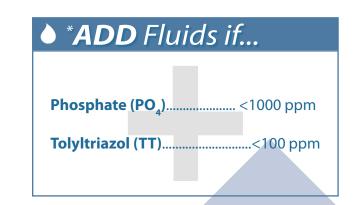
Follow this technical service guide to help catch issues before they cause problems, to extend fluid and equipment performance life and to avoid unplanned downtime. By monitoring and testing heat transfer fluids, thermal and oxidative stresses can be identified and corrected before it's too late.

i MITIGATE Risk of...

- Corrosion, Cavitation and Fouling
- Freezing
- Decreased Performance
- Start-up Problems

- Blockages
- Pump Gasket Failures
- Increased Viscosity and Vapor Pressure
- Fire Risks

• *REPLACE	Fluids if
рН	
Chloride	>200 ppm
Water	>75



Thresholds provided are meant only as guidelines to indicate fluid break-down and stresses. If thresholds are exceeded, please contact us immediately in order to have a full test analysis conducted and proper actions established.

✓ MONITOR Levels of			
Major Component	Formula		
Disodium phosphate Sodium nitrate Sodium tolyltriazol Sodium molybdate Scale Inhibitor Defoamer	NaŃO3 NaTT Na2MoO4 Proprietary		



NEED A SAMPLE TESTED? Call 1-800-315-4467

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For Technical or Ordering Information Call 1-800-315-4467 www.solventsandpetroleum.com