



Relatherm  
Heat Transfer Fluids

# RELATHERM S-2

Silicone Heat Transfer Fluid



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# RELATHERM S-2

## Silicone Heat Transfer Fluid

No oxidation! No gunk!! This engineered thermal fluid is formulated for absolute resistance to fluid degradation and for excellent pumpability at low temperatures. In a class of its own, it boasts of premium performance, extended life, and extreme stability in a variety of demanding applications.

### PRODUCT SUMMARY

- Oxidation-free thermal fluid great for open baths and other problematic systems.
- Great pumpability at sub-zero temperatures.
- Maximum use temperature: 180°C / 356°F.
- Great chiller/cooling fluid down to -60°C (-76°F).
- Non-toxic and non-hazardous thermal fluid.

### WHY RELATHERM S-2?

Relatherm S-2 is the result of extensive thermofluid research into effective non-fouling options for open heat transfer systems that require low-temperature pumpability. It is manufactured from a blend of high purity Silicone fluids and proprietary additives that ensure that sludge formation and coke deposition do not occur. Relatherm S-2 is thermally stable, even at elevated temperatures. In comparison with other industry fluids, it provides for an oxidation-free, less odorous, safer, cleaner, and trouble-free operation.

### EXTENDED FLUID LIFE

Relatherm S-2 is often selected for its durability and oxidative-stability in typically problematic systems such as open baths. Its base chemistry is non-susceptible to oxidation. As such, Relatherm S-2 has a service life much longer than most thermal fluids in exposed systems. Other industry fluids, it provides for an oxidation-free, less odorous, safer, cleaner, and trouble-free operation.

### NO OXIDATION! NO GUNK!!

Relatherm S-2 is fully resistant to oxidation in open and non-airtight systems. By virtue of its uniquely stable chemistry, it is non-susceptible to oxidative reaction mechanisms. This translates into the absence of sludge and carbon deposits. When used within the specified operating range, Relatherm S-2 provides lower maintenance costs, longer uptime and less frequent fluid changeouts.

### HEALTH, SAFETY & THE ENVIRONMENT

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### FLUID PROPERTIES

Maximum Bulk Temperature	180°C	356°F
Minimum Use Temperature	-60°C	-76°F
Pour Point ASTM D97	-100°C	-148°F
Flash Point	211°C	411°F
Auto-Ignition Temperature	400°C	752°F
Thermal Conductivity@50°C	0.00125 gcal/cm.sec. °C	
Specific Gravity@25°C	0.935	

Fluid properties are typical results and should not serve as a sole resource for determining the correct fluid for any application. Please consult a Relatherm representative to ensure that this product is the right choice.

Our ThermoFluid Care Program offers  
Free Heat Transfer Fluid Testing & Analysis

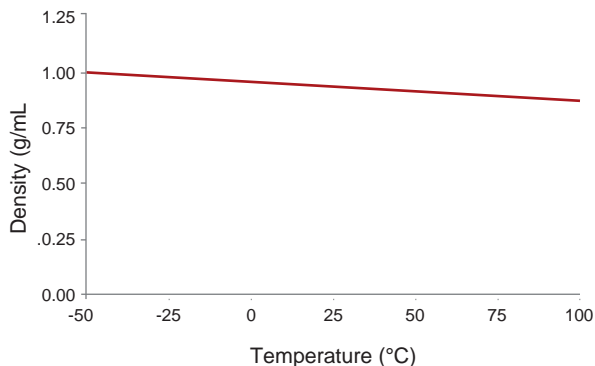
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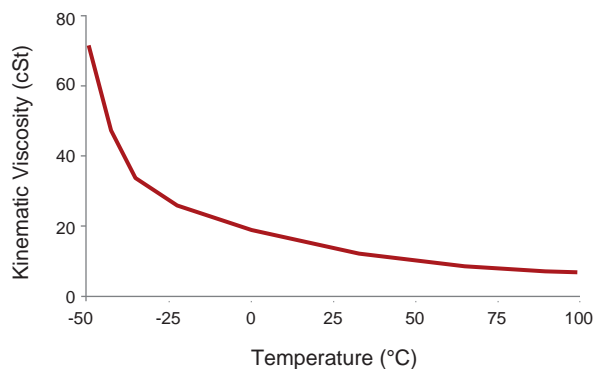
## Silicone Heat Transfer Fluid



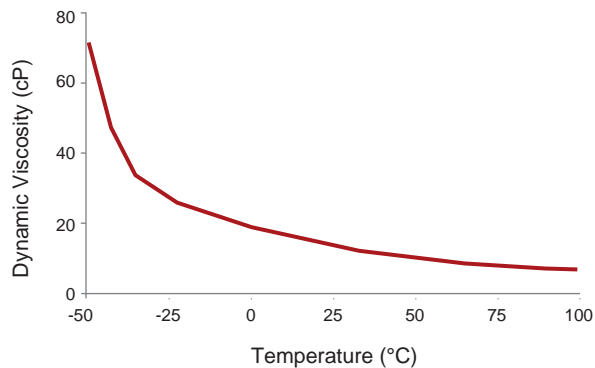
**Density**



**Kinematic Viscosity**



**Dynamic Viscosity**



Temperature (°C)	Kinematic Viscosity (cSt)	Dynamic Viscosity (cP)	Density (g/mL)
-50	72.47	72.89	1.006
-45	59.74	59.79	1.001
-40	49.93	49.72	0.996
-35	41.54	41.15	0.991
-30	34.97	34.47	0.986
-25	29.75	29.20	0.982
-20	26.25	25.66	0.977
-15	23.37	22.73	0.973
-10	20.83	20.16	0.968
-5	18.62	17.93	0.963
0	16.70	16.00	0.958
5	15.04	14.34	0.954
10	13.59	12.90	0.949
15	12.33	11.64	0.944
20	11.23	10.55	0.940
25	10.25	9.59	0.935
30	9.40	8.75	0.931
35	8.61	7.98	0.926
40	7.95	7.33	0.922
45	7.35	6.74	0.917
50	6.81	6.22	0.913
55	6.32	5.74	0.908
60	5.88	5.31	0.904
65	5.49	4.94	0.899
70	5.13	4.59	0.895
75	4.80	4.27	0.890
80	4.50	3.99	0.886
85	4.23	3.73	0.881
90	3.98	3.49	0.877
95	3.76	3.28	0.872
100	3.55	3.08	0.868



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