

HP HYTHERM γ

High temperature heat transfer fluid

HP THERM- γ is a high performance synthetic heat transfer fluid designed to meet the demands of liquid or vapour phase systems and indirect heat transfer.

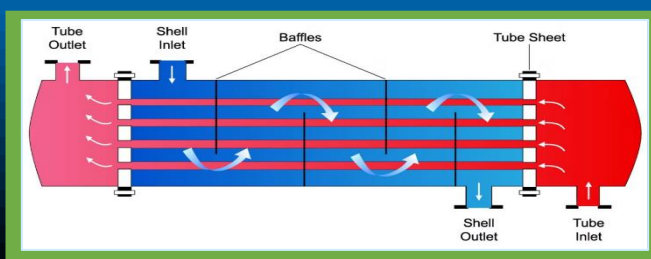
HP THERM- γ operating temperature is **15°C to 260 °C in liquid phase systems**

HP THERM- γ operating temperature is **260 °C to 390 °C in vapour phase systems** with low freeze point 12 °C (54°F)

HP THERM- γ is an excellent for use in heat transfer fluid systems, which require precise temperature control, due to its ability to operate in vapour phase.

HP THERM- γ combines low viscosity and exceptional thermal stability for consistent performance.

HP THERM- γ is an eutectic mixture of various phenyls that provides heat transfer fluid flexibility performing in both vapour and liquid phases.



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		HP Therm - γ
Composition (w/w %)		Mix of phenyls
Density (gm/cc)	25 °C	1.03
	100 °C	0.952
Viscosity (mPa-sec)	25 °C	3.041
	100 °C	0.862
Pour Point (°C)		12
Flash Point (°C)		117.5
Max. operating Temperature (Inert Atmosphere) (°C)		400
Specific Heat Capacity (kJ/kg k) @100 °C		1.778
Neutralization No (mg KOH/gm)		0.18
Thermal Conductivity (W/m-k) @100 °C		0.132
Thermal Diffusivity (m ² /s)		0.07754E-6
Copper Strip Corrosion @40 °C		1A
Sulfur Content (ppm)		10
Moisture Content (ppm)		190
Oxidation Stability (ASTMD7545)(VII)		120 minutes
Oxidation Stability (ASTMD7545)(VIII)		160 Minutes
Surface Tension (Dyne/cm)		23.27
Prandtl Number* @100 °C		11.67
Reynolds Number* at 100 °C ($v = 1$ m/s, tube ID = 4.57 mm)		5047
Nusselt Number* at 100 °C ($v = 1$ m/s, tube ID = 4.57 mm)		44.083
OHTC (W/m ² -k) at 100 °C		182

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Refinery



Petrochemicals



Chemicals



Cement



CST



CSP

