

# Hi-Tech THERM 60 PLUS

## SILICON GREEN 100% SYNTHETIC THERMIC FLUID

### Thermic Fluid technology used in USA, Europe, and Arabian countries

There are more than 100 companies in India which are providing thermic fluid in Indian market, and if you are looking for high-performance latest technology thermic fluid which has excellent operating benefits, then your first choice should be 'Hi-Tech Therm 60 Plus'. The technology behind this product is 'low viscosity', very 'low carbon formation' and protection from choking of heating coils. Generation Four Engitech Ltd. is the second largest company to sell this technology product in India. The viscosity and carbon percentage are two major bases in finalizing age and operating efficiency of any thermic fluid and technology of **Hi-Tech Therm 60 Plus** will benefit you in this regard.



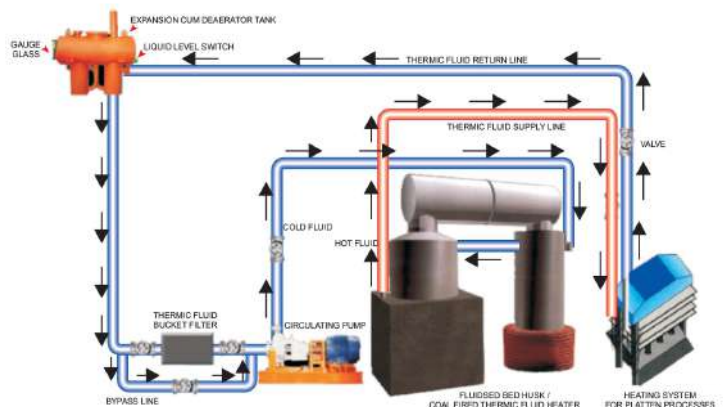
- High Oxidation Stability
- High Thermal Stability
- Has Long Life
- Almost Negligible Carbon Contents
- Lower Top Up Requirement
- Reduces Problem of Low and High Boilers

### Physical Properties

 <p><b>Composition</b> Mixture of synthetic fluid (100%)</p>	 <p><b>Kinematic Viscosity</b> @ 40°C   24cSt</p>	 <p><b>Flash Point</b> (ASTM D-92) 200°C   392°F</p>	 <p><b>Total Acid Number</b> 0.01 mg KOH/g</p>
 <p><b>Max. bulk Temperature</b> 345°C   682°F</p>	 <p><b>Pour Point</b> -40°C   -40°F</p>	 <p><b>Boiling Point</b> @1013 mbar 361°C   682°F</p>	 <p><b>Moisture Content</b> &lt;90 ppm</p>

### Operating Benefits of Hi-Tech Therm 60 Plus

- Large Operating Range Hi-Tech Therm 60 Plus is capable to work under the temperature range of **-15 to 345°C**.
- Good Flow Rate: Good heat transfer is directly dependent on flow rate and low viscosity of Hi-Tech Therm 60+, benefits to maintain the better flow rate.
- Long Life: Generally we discard thermic fluid after the increase in viscosity and increase in carbon percentage. Hi-Tech Therm 60 Plus is approx. 25% less viscose then other Thermic fluid.
- Non Fouling: Less solid formation is the uniqueness of **Hi-Tech Therm 60 Plus's** technology and this should be the reason to go with this technology only.

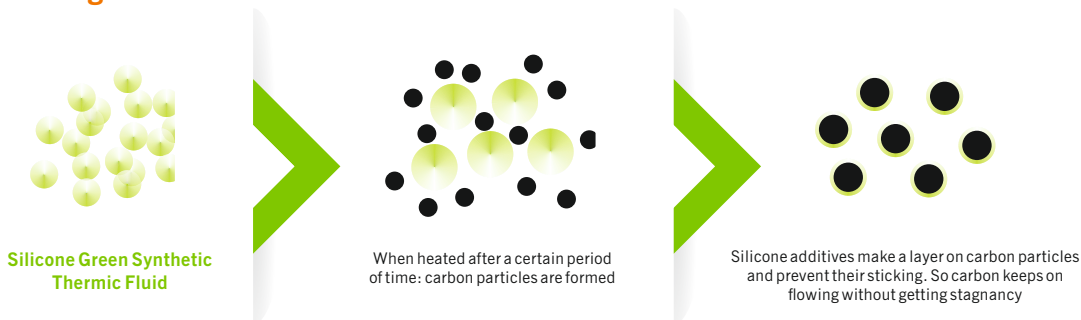


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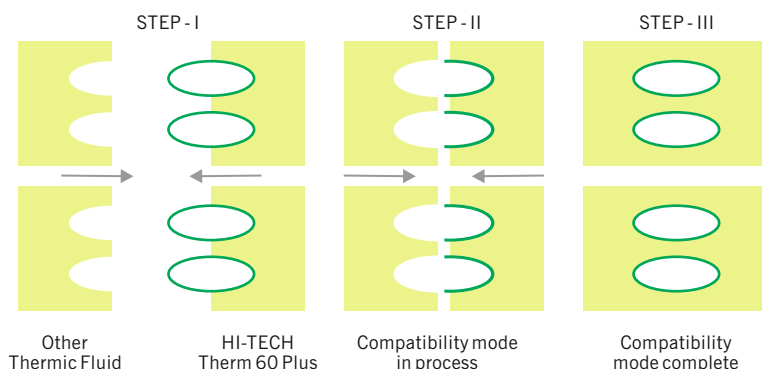
### Working of Special Dispersion Agent

Less or more with organic chemistry, there will be carbon release in thermic fluid and the silicon additive available in Hi-Tech Therm 60 Plus will protect oil by stopping carbon to remain in nano-size, because of nano-size carbon remain in flow and it will not reduce the efficiency of heat transfer area.



### Compatibility Process With Other Thermic Fluid

Silicon green synthetic fluid Hi-Tech Therm 60 Plus is fully compatible with all type of mineral & synthetic based thermic fluid like : Hytherm 500-600, Shell Thermia B, Servotherm, Therminol-55 and so on. Because of low viscosity & silicon additive, adding of Hi-tech Therm 60 Plus will increase overall performance of running oil. However lab confirmation is recommended for more safety.



### Tabulation Properties of Hi-Tech Therm 60 Plus with Respect to Temperature

Temperature °C	Specific Heat kj/kg°K	Liquid Density g/ml	Liquid Viscosity cSt	Liquid Thermal Conductivity W/m.°K	Vapour Pressure mm-Hg	Temperature °C	Specific Heat kj/kg°K	Liquid Density g/ml	Liquid Viscosity cSt	Liquid Thermal Conductivity W/m.°K	Vapour Pressure mm-Hg
-20	1.8030	0.88	823.00	0.1392	-	180	2.4900	0.76	1.35	0.1139	2.07
0	1.8430	0.86	149.00	0.1367	-	200	2.5650	0.75	1.11	0.1122	4.83
20	1.8680	0.85	50.00	0.1342	-	220	2.6260	0.74	0.92	0.1093	10.22
40	1.9230	0.84	24.00	0.1331	0.00	240	2.6540	0.72	0.73	0.1065	20.72
60	2.0450	0.82	12.11	0.1292	0.00	260	2.7390	0.71	0.68	0.1039	42.80
80	2.1070	0.81	7.76	0.1266	0.00	280	2.8740	0.69	0.55	0.1018	83.00
100	2.1820	0.80	4.21	0.1240	0.00	300	2.9090	0.67	0.50	0.0989	115.60
120	2.2380	0.79	3.10	0.1214	0.00	320	2.9640	0.66	0.45	0.0965	255.00
140	2.3170	0.78	2.71	0.1150	0.26	340	2.9710	0.65	0.39	0.0946	310.00
160	2.3830	0.77	2.06	0.1164	0.83						