

GENERATION FOUR ENGITECH LTD.



SILICONE GREEN SYNTHETIC THERMIC FLUID



**HITECH SOLUTION**  
*SPEED INNOVATION EXCELLENCE*

[www.hitechsolution.co.in](http://www.hitechsolution.co.in)  
[www.g4ltd.co.in](http://www.g4ltd.co.in)



## Profile



## Our Collaboration

**SOURCE EXPLORER Ltd.**

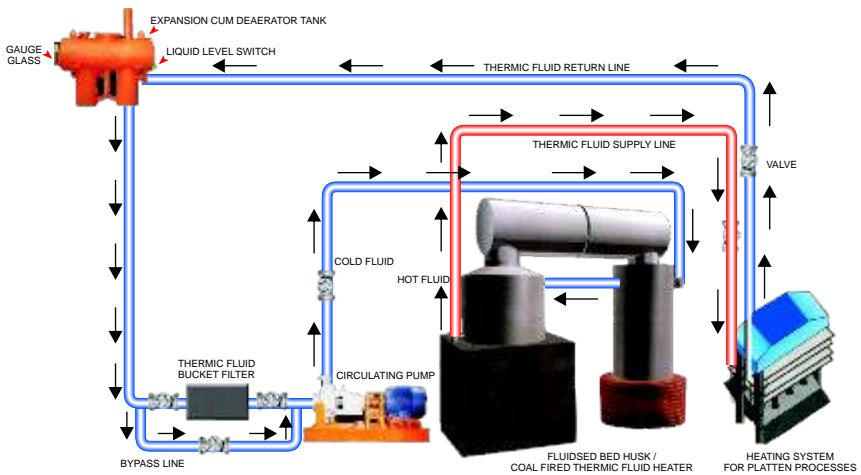
St Box No : 91642, Nathan Road.

TSIM SHATSUI, Hongkong.



## Using Heat Transfer System !!

Wait a sec!!!!



## Searching For Efficient Thermic Fluid???

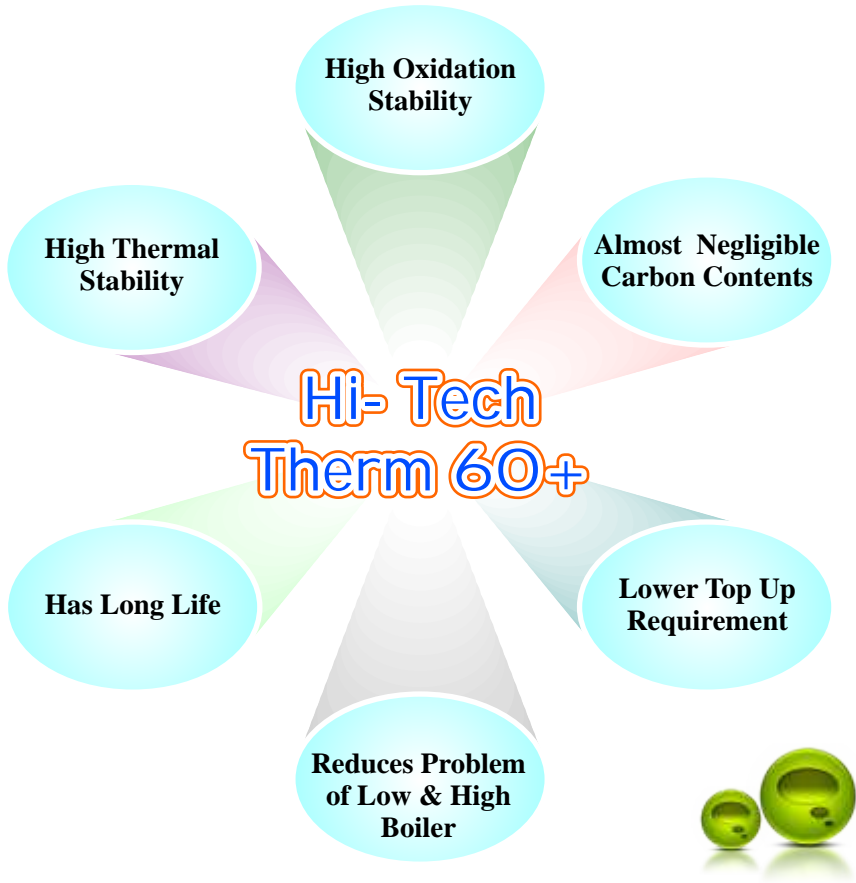
Which can provide :

- High efficiency incorporated with
- Effective cost
- Safety to the devices and
- Clean Environment



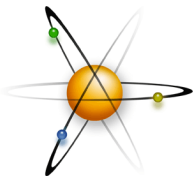


## Our Product

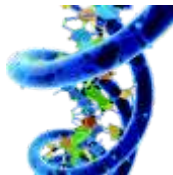


## The G4's DNA ?

"Speed"



"Innovation"



"Excellence"



## Physical Properties



### Composition



Mixture of synthetic fluid (100%)

### Appearance



Silicon Green liquid

### Kinematic Viscosity @ 40°C



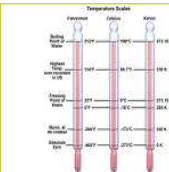
24cSt

### Flash point



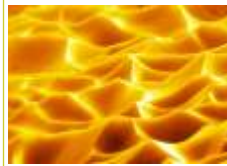
(ASTM D-92)  
200°C  
392°F

### Max. bulk Temperature



345°C  
682°F

### Pour Point



-40°C  
-40°F

### Boiling point@1013 mbar



361°C  
682°F

### Total Acid No.



0.03 mg KOH/g

### Moisture content



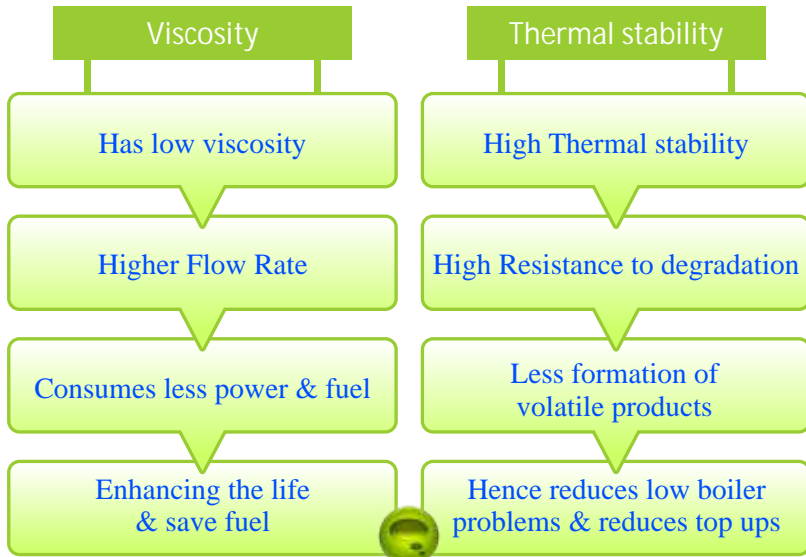
<90 ppm

### Coefficient of thermal expansion



0.00096/°C

## Journey To Excellence



## We Impart Performance By Providing Assurances For





## Our Life Long Assistance Programme

The Life Long Assistance Programme supports our customers throughout their system's life cycle. This comprehensive program facilitates with -

1. System design recommendations
2. Start up assistance
3. Sample Analysis
4. Flush and Refill fluids



## Sample Analysis

We offer testing of in-service heat transfer fluids to detect contamination, moisture, thermal degradation, and other conditions that may influence system performance.

Results of the test are presented in a detailed report that provides suggestions for corrective actions. Test results are stored in a database for future reference.

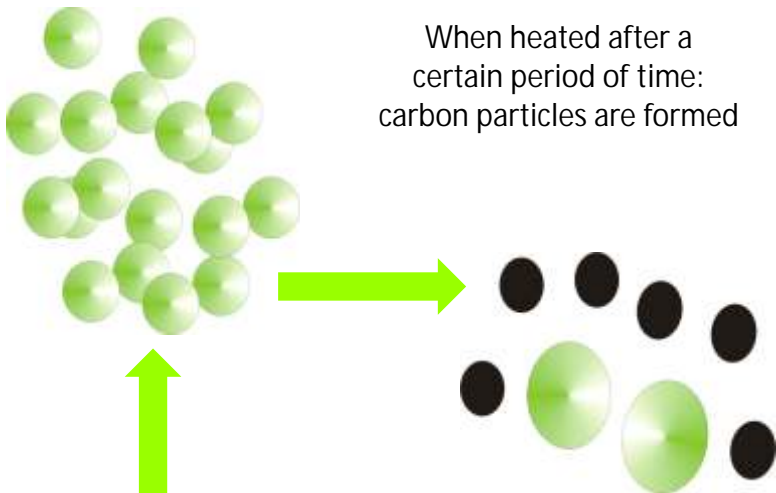
Additional special analyses are available upon request.



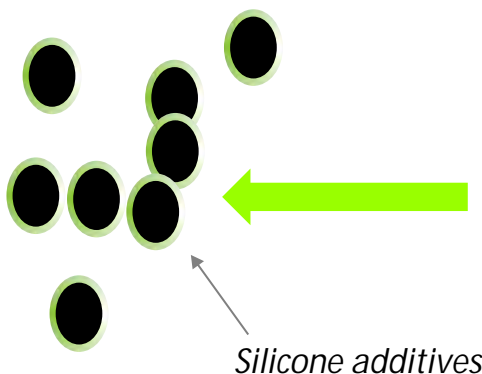
## Start Up Assistance

Start-up is often the most difficult part of operating a heat transfer fluid system. We provide start-up assistance by reviewing procedures and making suggestions to reduce typical problems.

## WORKING OF SPECIAL DISPERSION AGENT



SILICONE GREEN  
SYNTHETIC THERMIC  
FLUID

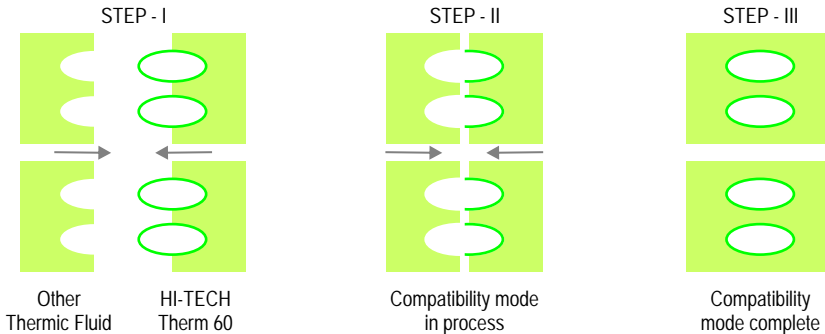


But the silicone additives make a layer on these carbon particles and prevent their sticking. So carbon keeps on flowing without getting stagnancy.

*Silicone additives*



## Compatibility Process With Other Thermic Fluids



Silicone green synthetic fluid '**Hi -Tech Therm 60+**' is fully compatible with all type of mineral based thermic fluid like: Hytherm 500-600, Shell Thermia B, Servotherm, Therminol-55 and Therminol-66

## FAQ :

### Q What happens when Hi-Tech Therm 60+ is mixed with other thermic fluid?

As mineral oils are natural hydrocarbons and Hi-Tech Therm 60+ is a man made hydrocarbon, being the same family they are compatible to each other. Extra additives incorporated in Hi-Tech Therm 60+ improve performance of any other fluid, new or existing, if added to, as seen below :

- Decreases the viscosity of existing oil increasing flow rate.
- Dispersion additive does magic to existing fluid as sticker carbon particles are removed from pipe line surface and breaking the same to micro form to a certain level.
- By making the flash point stable, life of existing fluid is increased by this addition.
- Even a percentage change of the existing fluid will give miraculous results. Any accident or mishap will result in overflow of oil and enhancing top-up. So why to wait for accidents, it is better to top-up with certain percentage of oil as and when needed.

## System Design Recommendation

We believe that by sharing our experience with customers, we can help improve system design, promote safety and reduce overall cost. Customers can take advantage of *G4's* heat transfer system operation and product training programmes. These programs are customized to suit the varied needs of front line technicians, operators, supervisors, maintenance technicians and design engineers as well. Customers can also receive training assistance for dealing with important topics like fluid safety and handling.

## Research & Development

“We are using fluid for past 2 years and now want to add it with new oil.”

***Should we proceed?***

***How we will be effected afterwards?***

***What percentage of temperature variations can be faced?***

***How the new filling will effect our cost?***

Many such questions are still searching for a technical support are to be answered.

The R&D section at Generation Four is devoted exclusively for such and many related problems supported by “WELL EQUIPPED FACILITATED LABORATORY”





## Laboratory Support



Our well assorted laboratory with required apparatus is ready to research & test the samples provided by our customers. The sample testing is done on various parameters against the international standards and depending upon the results recommendations are made by our technical heads.

## Technical Support *(Multi Tiered Technical Support)*

Our technical support services are divided into III tier in order to better serve our customer base.

### **TIER - I**

1. This is initial support level responsible for basic customer issues.
2. It starts with determining the customer's issue by analyzing the sample.
3. Once identification of the underlying problem is done "The



specialist begins sorting through the possible solutions available

### **TIER II**

1. More in depth technical support level
2. Administrative level support.
3. Include onsite inspection of system design & networking.
4. Compatibility related issues in case of Top-ups on other fluids

### **TIER III**

1. Highest level of support.
2. Back end support for handling the most difficult or advanced problem.



## *Technical Service*

Experienced technical service specialist can answer your questions regarding heat transfer fluid selection, system start-ups, system design, and operational issues.

call us on: \_\_\_\_\_

or contact : [cc@hitechsolution.co.in](mailto:cc@hitechsolution.co.in)





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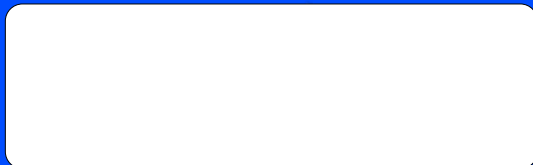
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Collaboration with :

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St Box No : 91642, Nathan Road. TSIM SHATSUI, Hongkong.

Local Representative :



Disclaimer :

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