

# MOLYGULF SPECIALIZED LUBRICANTS

Ultimate High Performance Specialty Lubricants



## SG-25 HEAT TRANSFER “THERMIC” OIL



**SG-25** Heat Transfer Oil is blended from the finest select high viscosity index severely solvent refined, severely hydrotreated 100% pure paraffin base oils available. It is a Non-Corrosive, Non-Fouling, Paraffinic Heat Transfer Fluid that is formulated to provide fast and efficient heat transfer when used in open loop or closed system applications with expansion tank temperatures up to 600°F (315°C). Heat Transfer Oil’s operability temperature is from 20°F (-7°C) to a maximum film temperature of 600°F (315°C)

It has good heat transfer efficiency with better resistance to thermal cracking and chemical oxidation. They have high specific heat and good thermal conductivity providing more rapid heating & greater system flexibility.

### **APPLICATION:**

It is highly recommended for non pressurized, closed system application with expansion tank temperatures up to 315°C where Flash and Fire Points significantly above 190.89°C. Such systems are mainly used in Food Processing, Plastics & Metal Industries, Pharmaceuticals, Construction, Laundries, Asphalt Plants, Chemical Plants, Waxes, Resin, Fiber-board, Grease, Rubber, Soap and other industries etc.

### **FEATURES:**

1. High Viscosity Index results in a minimum change in viscosity over a broad temperature.
2. Excellent Heat Transfer Properties, Maximize cooling.
3. Excellent hydrolytic stability and resistance to emulsification with water.
4. Virtually odorless and essentially non-toxic and Non- fouling on degradation
5. Long service life for proven trouble-free operation
6. Excellent hydrolytic stability and resistance to emulsification with water.
7. Excellent compatibility with other petroleum base heat transfer oils.
8. Excellent compatibility with all types of seals, materials of construction and finishes commonly used in heat transfer systems.

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## **TYPICAL SPECIFICATIONS:**

Specific Gravity	.867
Viscosity cSt, @ 40°C (ASTM D-945)	42.00 – 49.00
Viscosity cSt, @ 100°C (ASTM D-945)	6.5 – 7.2
Viscosity Index (ASTM D-2270)	120
Flash Point °F/°C (ASTM D-92)	460°/237.78°
Fire Point °F/°C (ASTM D-92)	495°/257.22°
Auto-ignition Temperature °F/°C	705°/373.89°
Pour Point °F/°C (ASTM D-97)	-20°/-28.89°
Conradson Carbon % (ASTM D-189)	0.01%
Ramsbottom Carbon Mass % (ASTM D-524)	0.03%
Copper Strip Corrosion Test (ASTM D-130)	1a
Vapor Pressure (ASTM D-2879) mm Hg @ 68°F/20°C	<0.1
Noack Volatility (ASTM D-5800)	8.5%
% Evaporation Loss @ 150°C	
Aniline Point °F/°C (ASTM D-611)	235°/112.78°
Total Acid No. (ASTM D-664)	0.1

## **THERMAL PROPERTIES:**

Temp °F	Specific Heat BTU/lb./F	Thermal Conductivity BTU/m/sq./ft/FT	GMS/CM Density
150	0.52	0.075	0.84
300	0.59	0.071	0.79
450	0.68	0.067	0.73