

## HEAT TRANSFER OIL VG 100

### Description

This is a heat transfer oil based on a specifically refined mineral oil with exceptional oxidation stability and very high resistance to thermal decomposition. It can also be used as a circulation oil VG 100 or thermal oil VG 100.

### REDEFINING LIQUID ENGINEERING

### Performance Benefits

<b>Excellent thermal oxidation stability</b>	<b>Excellent protection against wear, foam and corrosion</b>
<b>Excellent protection against forming of bore polishing</b>	<b>Low temperature properties to ensure smooth cold start</b>
<b>Good TBN Value</b>	

TESTING METHODS	RESULTS
SAE GRADE	100
VISCOSITY, ASTM D445	
cSt @ 40 °C	100
cSt @ 100 °C	14.4
Viscosity Index, ASTM D 2270	150
Pour Point, °C, ASTM D 97	-22
Flash Point, °C, ASTM D 92	226
Density @ 15°C kg/l, ASTM D 4052	0.87
Thermal Stability (340c ,1000hr) ASTM D51528 Substance %	5.7
Distillation Range (Initial Distillation Point C)	315
2% Distillation Point C	340.9
Micro-Conradson Carbon Residue %wt ISO 10370	<0.01

Sulfur %ASTM D 5453	<0.01
Maximum Bulk temperature C	345
Maximum Film Temperature C	375
Normal Boiling Point C	359
Pumpability, 300 mm <sup>2</sup> /s (cSt)	11
Pumpability, 2000 mm <sup>2</sup> /s (cSt)	-3
<b>Minimum liquid temperatures for fully developed turbulent flow (NRe &gt; 10000)</b>	
10 ft/sec, 1 in tube (3.048 m/s, 2.54 cm tube)	72
20 ft/sec, 1 in tube (6.096 m/s, 2.54 cm tube)	53
<b>Minimum vapor temperatures for fully developed turbulent flow (NRe &gt; 2000)</b>	
10 ft/sec, 1 in tube (3.048 m/s, 2.54 cm tube)	35
20 ft/sec, 1 in tube (6.096 m/s, 2.54 cm tube)	26
Total acidity ASTM D664	<0.2 mg KOH/g
Moisture content, maximum ASTM E203	150 ppm
Dielectric constant @ 23°C ASTM D924	2.60

## Approval

PRODUCTS AVAILABLE IN 5L, 18L, 200L

## Health, Safety & Environment

### Health and Safety

- Our Lubricant is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.
- Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.
- Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from <http://www.advancelubholdings.com>
- Protect the Environment Take used oil to an authorized collection point.
- Do not discharge into drains, soil or water. Additional Information Advice on applications not covered here may be obtained from our representative.

