

## HEAT TRANSFER OIL VG 32

### 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 32 or thermal oil VG 32.

### 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	VG 32
VISCOSITY, ASTM D445	
cSt @ 40 °C	29.0
cSt @ 100 °C	3.9
Viscosity Index, ASTM D 2270	133
Sulfanated Ash, Wt%, ASTM D874	1.35
Total Base # , mg KOH/g, ASTM D 2896	15
Pour Point, °C, ASTM D 97	-30
Flash Point, °C, ASTM D 92	190
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.

The information contained in this document is based on data believed to be reliable and relates only to matters specifically mentioned in this document. Although all reasonable skill and care is taken in preparation of this information, no representation, warranty or guarantee is made with regards to accuracy, reliability and completeness.

