

# PRODUCT DATA SHEET



## Athen Marine Thermal 32

Marine Heat Transfer Mineral Oil

### Product Description

**Athen Marine Thermal 32** is premium-quality heat transfer oil intended for use in closed indirect heating systems. It is formulated from highly refined base stocks to provide excellent oxidation stability and resistance against thermal cracking. It possesses high specific heat and thermal conductivity to provide more rapid heat dissipation, and its ability to flow rapidly at low temperatures ensures quick circulation at start-up and reduces the risk of local overheating.

### Features & Benefits

- Excellent thermal and oxidation stability minimizes deposit formation and viscosity increase, leading to extended service life and reduced downtime
- Exceptional resistance to thermal cracking and decomposition enables this oil to perform well up to a maximum bulk oil temperature of 315 °C with minimal interference with heat transfer capability
- High specific heat and thermal conductivity of this oil provide more rapid heat dissipation
- Superior low-temperature fluidity ensures quick circulation at start-up and reduced risk of local over-heating
- Noncorrosive to aluminum, steel, copper, brass or bronze

### Applications

- Closed, indirect heating and cooling systems equipped with expansion tanks in all kinds of industrial processes operating at bulk oil temperatures up to 315 °C.
- Open heating systems provided that the bulk oil temperature does not exceed 180 °C.

Athen Marine Thermal 32		
Performance level meets/exceeds	DIN 51522 -Q and ISO 6743-12 Family Q	
Test Parameters	ASTM Method	VG 32
Density @ 15°C, kg/l	D 1298	Report
Viscosity @ 100°C, cSt	D 445	5.36
Viscosity @ 40°C, cSt	D 445	32
Viscosity Index	D 2270	100
Flash Point, °C	D 92	200
Pour Point, °C	D 97	-12
Copper corrosion (3 h, 100 °C)	D 130	1a

*"Data provided in this PDS is based on standard tests under laboratory conditions and is indicative only. Minor variations that do not affect product performance are expected in normal manufacturing. This product should not be used for any purpose other than those expressly set out in this PDS"*