

# Mobiltherm™ 600 Series

## High-performance heat transfer oils



Energy lives here™

### Product features

Mobiltherm™ 600 Series heat transfer oils are high-performance products intended for use in closed, indirect heating installations. They can offer:

- High resistance to thermal cracking and decomposition
- Excellent thermal properties
- Good thermal and oxidative stability, and low-temperature fluidity

Recommended for use in cold oil-sealed, indirect heating and cooling systems in all kinds of industrial processes

### Typical properties

Mobiltherm 600 Series	603	605	610	611
Viscosity, ASTM D 445				
cSt @ 40°C	20.2	30.4	113	490
cSt @ 100°C	4.2	5.4	11.5	31.5
Pour Point, °C, ASTM D 97	-15	-12	-6	-6
Flash Point, °C, ASTM D 92	194	230	250	294
Specific Gravity @15°C kg/l, ASTM D 4052	0.835	0.857	0.88	0.906

### Potential benefits

Mobiltherm 600 Series heat transfer oils can provide:

- 1 Low sludge and coke deposits, minimum interference with heat transfer capability and minimised maintenance
- 2 High heat transfer rates, operating efficiency and low operating costs
- 3 Long, trouble-free service life and minimal downtime
- 4 Easy starting of cold systems

### Product formulation and advantages

Mobiltherm 600 Series heat transfer oils are formulated from highly refined base stocks that are resistant to thermal cracking and chemical oxidation. They are very thermally stable and are capable of an extremely long service life without deposit formation or viscosity increase.

The oils have good heat transfer efficiency, and their viscosities are such that they can be pumped readily at both startup and operating temperatures. They demonstrate specific heat and thermal conductivities that provide more rapid heat dissipation. The flash points of these oils will not decrease significantly in service because of their resistance to thermal cracking at their recommended operating temperatures.