ROLCER™

# Therma QC

***Heat Transfer Oil***

**Technical Data Sheet**

## Product Description

Rolcer Therma QC is a high quality heat transfer oil for use in indirectly heated closed heat transfer systems. It is based on carefully selected highly refined, high viscosity index mineral oil chosen for its thermal and oxidation stability to provide superior performance in heat transfer systems.

## Application

Rolcer Therma QC is recommended for non-pressurized. Closed liquid phase heating systems operation at bulk fluid temperatures up to 315$^0$C, with a maximum film temperature preferably not exceeding 340$^0$C.

Before commissioning, the system should be pressure tested for leaks and thoroughly flushed with Therma QC. Water should never be used. After flushing and draining, the system should be filled with fresh Therma QC. Filling is complete when the oil level in the expansion chamber is at 30-45% of the level expected at operating temperature. All air must be completely evacuated from the system before the temperature is raised to operation level. Despite the excellent oxidative stability of Therma QC, precautions must be taken to minimize exposure of hot oil to air, especially if the temperatures of the oil in the expansion chamber exceeds 50$^0$C.

## Features/Benefits

- Excellent fluidity and heat transfer characteristics
- Long and trouble-free service due to excellent oxidation stability
- Noncorrosive and high solvency characteristics

## Typical Properties

| Test Parameters | ASTM Method | Typical Values | |
|---|---|---|---|
| | | ISO 32 | ISO 46 |
| Density @ 15.6$^0$C | D1298 | 0.87 | 0.88 |
| Colour | D1500 | <1.5 | <1.5 |
| Kinematic Viscosity @ 40$^0$C, cSt | D445 | 32 | 46 |
| Viscosity Index | D2270 | 100 | 98 |
| Pour Point $^0$C | D97 | -12 | -9 |
| Flash Point $^0$C | D92 | 214 | 222 |
| Fire Point $^0$C | D92 | 238 | 241 |
| Neutralization Value mgKOH/g | D974 | 0.05 | 0.05 |

Properties mentioned above are typical only, and minor variations which do not affect the product performances, are to be expected in normal manufacturing.

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