

SRS Mihatherm WU 10

Heat Transfer Oil



March 2016

Characteristics

SRS Mihatherm WU 10 is a heat transfer oil with excellent thermal and oxidation stability in a viscosity range, ideal for heat transfer operations. A low viscosity product in a high boiling range guarantees turbulent flow associated with good heat transfer at relatively low flow velocity. Operations safety and reliability result from compliance with DIN 4754, UVV (accident prevention regulation), VGB 17 and VDI Richtlinie (Guideline) 3033.

The SRS base oils allow the development of heat transfer oils in a convenient viscosity grade with excellent thermal stability and good oxidation stability. A low viscosity in a high boiling range guarantees turbulent flow associated with good heat transfer at relatively low flow velocity.

Applications

SRS Mihatherm WU 10 as low viscous product allows operation in plants with film wall temperature in the range between -30°C and 270°C. Good low temperature fluidity provides trouble free start –ups even at low temperatures.

Contact between oil and air should be avoided, because air (oxygen) can cause accelerated oxidation of hydrocarbon products.

SRS Mihatherm WU 10 is a heat transfer oil with designation Q, DIN 51 502 and is in compliance with the DIN 51 522. The requirements of this standard are even exceeded in certain major characteristics.

SRS Mihatherm WU 10 oil is a product of the H&R ChemPharm GmbH.

| Typical Data | | Test Method | SRS Mihatherm WU 10 |
|------------------------|--------------------|-----------------|---------------------|
| Designation | | DIN 51 502 | Q |
| Density at 15°C | g/cm ³ | DIN 51 757 | 0.889 |
| Kin. Viscosity at 40°C | mm ² /s | DIN EN ISO 3104 | 10.2 |
| Flash Point COC | °C | DIN ISO 2592 | 154 |
| Pour Point | °C | DIN ISO 3016 | <-50 |
| Carbon Residue | wt. % | DIN 51 551 | <0.01 |
| Initial Boiling Point | °C | ASTM D 1160 | >280 |
| Flow Temperature | °C | | up to 250 |

| Temperature °C | Kin. Viscosity mm ² /s | Density g/cm ³ | Specific heat capacity kJ/kg K | Thermal conductivity W/m K | Prandtl number |
|-------------------|--------------------------------------|------------------------------|-----------------------------------|-------------------------------|----------------|
| -20 | 298 | 0.912 | 1.718 | 0.134 | 3460 |
| 0 | 65 | 0.899 | 1.790 | 0.133 | 783 |
| 20 | 22.2 | 0.886 | 1.862 | 0.131 | 279 |
| 50 | 7.45 | 0.866 | 1.969 | 0.129 | 99 |
| 100 | 2.44 | 0.834 | 2.148 | 0.125 | 35 |
| 200 | 0.76 | 0.769 | 2.507 | 0.117 | 12.6 |
| 300 | 0.55 | 0.736 | 2.686 | 0.113 | 9.6 |

The above values may vary within the commercial limits.

Made in Germany