SRS Mihatherm WU 46

Heat Transfer Oil



March 2016

Characteristics

SRS Mihatherm WU 46 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 46 is recommended for plants with film wall temperature in the range between -10°C and 350°C.

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

SRS Mihatherm WU 46 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 46 oil is a product of the H&R ChemPharm GmbH.

Typical Data		Test Method	SRS Mihatherm WU 46	
Designation		DIN 51 502	Q	
Density at 15°C	g/cm³	DIN 51 757	0.870	
Kin. Viscosity at 40°C	mm²/s	DIN EN ISO 3104	43.7	
Flash Point COC	°C	DIN ISO 2592	225	
Pour Point	°C	DIN ISO 3016	-12	
Carbon Residue	wt.%	DIN 51 551	0.01	
Initial Boiling Point	°C	ASTM D 1160	390	
Flow Temperature	°C		up to 320	

Temperature °C	Kin. Viscosity mm²/s	Density g/cm³	Specific heat capacity kJ/kg K	Thermal conductivity W/m K	Prandtl number
0	535	0.879	1.864	0.134	6543
50	28.6	0.848	2.078	0.131	385
100	6.5	0.816	2.293	0.127	96
200	1.5	0.750	2.721	0.120	26
300	0.7	0.685	3.151	0.113	13.4
320	0.6	0.672	3.236	0.111	11.8

The above values may vary within the commercial limits.

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