



Rodun International BV

WE ALWAYS HAVE A SOLUTION FOR YOU!

Rodutherm FM

Food-grade dedicated heat transfer fluid

Introduction

Rodutherm FM is a kind of high performance and temperature food grade heat conduction oil designed for use in the -18 °C -315 °C liquid heat transfer system.

Its ultra-low tipping point and strict thermal stability test prove that it can be applied to long-term stability at -18 °C -315 °C.

Rodutherm FM has superior thermal stability and antioxidant properties than other competitive brands, so it has a long life and low operating costs.

Typical Properties

PROPERTY		TYPICAL VALUE
Appearance		Transparent
Pour point		-20°C
Kinematic Viscosity	cst@40°C	15 cSt
	cst@100°C	3.4 cSt
Flash point		195°C
Auto-ignition Temperature		360°C
Thermal Expansion		0.0919%/°C
Moisture Content		< 100 ppm
Distillation	10%	330°C
	90%	400°C



Liquid Properties

Temperature		Vapor Pressure	Heat Capacity	Thermal Conduct	Density	Viscosity
°F	°C	kPa	kJ/(kg·K)	W/m·K	kg / m^3	mm ² /s
32	0		1.74	0.139	872	107.5
50	10		1.76	0.138	860	57.9
68	20		1.78	0.137	852	34.4
86	30		1.8	0.137	846	22
104	40		1.82	0.136	838	15
122	50		1.84	0.135	830	10.8
140	60		1.86	0.135	822	8.05
158	70		1.88	0.134	814	6.24
176	80		1.9	0.133	805	4.98
194	90		1.92	0.132	799	4.07
212	100		1.94	0.131	790	3.4
248	120		2.03	0.13	776	2.5
284	140		2.11	0.128	763	1.94
320	160		2.21	0.128	749	1.57
356	180		2.3	0.127	737	1.32
392	200		2.39	0.126	723	1.13
428	220		2.49	0.125	712	1
464	240		2.58	0.125	700	0.89
500	260	3.01	2.68	0.124	688	0.81
536	280	7.04	2.76	0.123	678	0.75
572	300	11.06	2.83	0.122	667	0.7