



RODUTHERM XP

Food-grade dedicated heat transfer fluid | Technical Data Sheet

Introduction

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

Benefits

- Ultra-low tipping point with excellent low-temperature stability
- Superior thermal stability and antioxidant properties
- Food-grade quality suitable for food processing applications
- Long service life and lower operating costs

Typical Properties

Property	Typical Value
Appearance	Transparent
Pour point	-20°C
Kinematic Viscosity @-14°C	300 cSt
Kinematic Viscosity @40°C	15 cSt
Kinematic Viscosity @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
Distillation 90%	400°C

Liquid Properties

°C	kPa	kJ/(kg·K)	W/(m·K)	kg/m ³	mm ² /s
0		1.74	0.139	872	107.5
10		1.76	0.138	860	57.9
20		1.78	0.137	852	34.4
30		1.8	0.137	846	22
40		1.82	0.136	838	15
50		1.84	0.135	830	10.8
60		1.86	0.135	822	8.05
80	0.011	1.9	0.133	805	4.98
100	0.02	1.94	0.131	790	3.4
120	0.04	2.03	0.13	776	2.5

RODUTHERM XP — Technical Data Sheet The data presented is typical and subject to normal manufacturing variation.
For product safety information, please refer to the Safety Data Sheet.