

Rodutherm 55

Synthetic Heat Transfer Fluid with excellent thermal stability

Introduction

Rodutherm 55 is synthetic HTF used for closed liquid phase system.

The strict thermal stability test proves, that Rodutherm 55 is suitable for the stable and long-term use at 285°C, and even for the short-term use at 315°C.

Benefits

- ◆ Can be pumped at -25°C, with excellent low-temperature start-up.
- ◆ Excellent thermal stability and Oxidation Resistance.
- ◆ No generation of metal corrosive material, which is suitable for all kinds of metallic system.

Typical Properties

PROPERTY		TYPICAL VALUE
Appearance		Transparent
Density @15°C		0.868kg / m ³
Pour point		< -50°C
Kinematic Viscosity	cst@40°C	19.0cSt
	cst@100°C	3.50cSt
Flash point		193°C
Auto-ignition Temperature		366°C
Thermal Expansion @200°C		0.000961/°C
Moisture Content		< 100 ppm
Distillation	10%	340°C
	90%	390°C

Liquid Properties

Temperature °C	Density kg/m ³	Heat Capacity		Thermal Conduct		Viscosity		Vapor Pressure	
		Btu/(lb·°F) [cal/(g · °C)]	kJ/(kg·K)	Btu/ (ft · hr · °F)	W/ (m · k)	cSt [mm ² /s]	cP [mPa · s]	Kgf/cm ²	kPa
-10	892	0.433	1.81	0.0763	0.1320	297	265		
0	886	0.440	1.84	0.0756	0.1308	134	119		
20	872	0.456	1.91	0.0743	0.1285	48.6	42.4		
50	852	0.483	2.02	0.0722	0.1249	13.09	11.2		
100	818	0.523	2.19	0.0688	0.1191	3.50	2.86	0.00032	0.031
150	784	0.566	2.37	0.0655	0.1133	1.65	1.29	0.0033	0.32
200	750	0.607	2.54	0.0621	0.1074	1.00	0.75	0.0248	2.43
250	716	0.650	2.72	0.0587	0.1016	0.69	0.49	0.0976	9.57
300	682	0.691	2.89	0.0554	0.0958	0.49	0.33	0.376	36.9