

Rodutherm N

Synthetic Heat Transfer Fluid with excellent thermal stability

Introduction

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

The strict thermal stability test proves, that Rodutherm N 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 -30°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		0.863kg / m ³
Pour point		-60°C
Kinematic Viscosity	cst@40°C	15.85cSt
	cst@100°C	3.16cSt
Flash point		193°C
Auto-ignition Temperature		370°C
Thermal Expansion @200°C		0.000972/°C
Moisture Content		< 100 ppm
Distillation	10%	340°C
	90%	380°C

Liquid Properties

Temperature	Density	Heat Capacity		Thermal Conduct		Viscosity		Vapor Pressure	
°C	kg/m³	Btu/(lb·°F)	kJ/(kg·K)	Btu/	W/	cSt	cP	Kgf/cm²	kPa
		[cal/(g · °C)]		(ft · hr · °F)	(m · k)	[mm²/s]	[mPa · s]		
-10	891	0.435	1.82	0.0757	0.1126	180	161		
0	882	0.444	1.86	0.0750	0.1117	93	82		
20	866	0.463	1.94	0.0737	0.1097	35.3	30.6		
50	847	0.492	2.06	0.0717	0.1067	10.55	8.93		
100	813	0.540	2.26	0.0683	0.1017	3.16	2.49	0.00057	0.056
150	779	0.588	2.46	0.0650	0.0968	1.49	1.16	0.0053	0.52
200	744	0.628	2.63	0.0616	0.0917	0.92	0.68	0.0309	3.03
250	708	0.666	2.79	0.0582	0.0866	0.62	0.44	0.0128	12.58
300	668	0.707	2.96	0.0550	0.0818	0.46	0.31	0.443	43.46