

Lubricants for industry.

Diatherm



Mineral heat-transfer fluid.

> Use

- A product formulated with highly refined paraffinic base oils and special additives that deliver a high viscosity index and excellent stability. As a result, the product's viscosity remains virtually unchanged during the heat-transfer process.
- It is especially suitable for transferring heat in closed-loop circulation systems with film temperatures up to 315°C.

> Benefits

- High thermal conductivity, low vapor pressure, and high specific heat, along with strong oxidation stability.
- A technically robust, high-performance fluid designed for heat-transfer systems.
- Excellent chemical stability and resistance to high temperatures. Keeps heat-transfer systems free of deposits, extending changeout intervals.
- Low cold-temperature viscosity. Reduces pumping costs by minimizing friction-related losses.

> Physical and chemical properties

Parameter	Units	Method	Diatherm	
ISO Grade	-	-	22	32
Density 15°C	Kg/l	ASTM D-4052	0.869	0.8741
V/A flash point	°C	ASTM D-92	216	228
Pour point	°C	ASTM D-5950	-18	-12
Viscosity at 100°C	cSt	ASTM D-445	4.26	5.38
Viscosity at 40°C	cSt	ASTM D-445	22.14	29.59
Viscosity Index	-	ASTM D-2270	95	115
Distillation (5%)	°C	ASTM D-1160	360	370

The typical values of the characteristics appearing in the table are average values given for guidance purposes only and do not constitute a guarantee. These values may be modified without any prior warning.

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Temperature (°C)	Diatherm 22				Diatherm 32			
	Specific heat (J/g°C)	Steam pressure (psia)	Density (g/cm3)	Viscosity (cSt)	Specific heat (J/g°C)	Steam pressure (psia)	Density (g/cm3)	Viscosity (cSt)
20	1.9175	<0.002	0.8672	54.7370	1.8877	<0.002	0.8711	85.5500
40	1.9863	<0.002	0.8549	22.0300	1.9459	<0.002	0.8588	31.9000
60	2.0582	<0.002	0.8426	11.1011	2.0095	<0.002	0.8465	15.1900
80	2.1103	<0.002	0.8302	6.5227	2.0498	<0.002	0.8341	8.5500
100	2.1791	0.0020	0.8177	4.2700	2.1148	<0.002	0.8216	5.4200
120	2.2442	0.0050	0.8051	3.0232	2.1615	<0.002	0.8091	3.7400
140	2.3247	0.0130	0.7924	2.2697	2.2196	0.0020	0.7964	2.7500
160	2.3989	0.0300	0.7796	1.7827	2.2856	0.0050	0.7836	2.1300
180	2.4732	0.0670	0.7667	1.4509	2.3449	0.0140	0.7707	1.7000
200	2.5303	0.1390	0.7537	1.2152	2.4056	0.0330	0.7577	1.4100
210	2.5577	0.1960	0.7472	1.1224	2.4446	0.0490	0.7512	1.2900
220	2.5878	0.2710	0.7406	1.0422	2.4838	0.0720	0.7446	1.2000
230	2.6023	0.3710	0.7339	0.9725	2.5213	0.1050	0.7379	1.1100
240	2.6371	0.5000	0.7272	0.9116	2.5738	0.1500	0.7312	1.0300
250	2.6425	0.6700	0.7205	0.8581	2.6032	0.2120	0.7245	0.9700
260	2.6852	0.8900	0.7137	0.8108	2.6373	0.2950	0.7177	0.9100
270	2.7188	1.2000	0.7068	0.7689	2.6486	0.4060	0.7108	0.8600
280	2.7502	1.5000	0.6999	0.7315	2.6706	0.5500	0.7039	0.8200
290	2.7913	1.9000	0.6930	0.6981	2.6949	0.7400	0.6970	0.7800

Health & safety and environment

A Material Safety Data Sheet providing information on product hazards, handling precautions, first aid measures, and relevant environmental data is available for this product as per applicable legislation.