INDUSTRY

LUBRICANTS FOR INDUSTRIAL USE

CEPSA DIATERMO

DESCRIPTION

Thermal oil formulated with highly refined paraffin bases and special additivation, making for a very stable product with a high viscosity index. As a result, the viscosity of the product is maintained without significant variations during the heat transfer process.

PRODUCT APPLICATIONS

- Especially indicated for heat transfer in closed circulation systems, at boundary layer temperatures of up to 315 ºC.

PRODUCT PERFORMANCE

- High thermal conductivity, low steam pressure and high specific heat, as well as high oxidation stability. Technically suitable, high-performance fluid for heat transfer systems.

- High chemical stability and resistance to high temperatures. Maintains transfer systems deposit-free, thus extending the change periods.

- Low viscosity at low temperatures. It manages to reduce pumping expenses, given the drop in friction losses.

TYPICAL CHARACTERISTICS

CHARACTERISTIC	UNITS	METHOD	CEPSA DIATERMO 22	CEPSA DIATERMO 32
ISO GRADE			**22**	**32**
Density at 15°C	Kg/l	ASTM D-4052	0.869	0.8741
Flash point, V/A	°C	ASTM D-92	216	228
Freezing 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

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	CEPSA DIATERMO 22				CEPSA DIATERMO 32			
Temperature (°C)	**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

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures together with environmental effects and disposal of used products.

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