



PRISTA® MTL 46

HEAT TRANSFER FLUID

Description and Application

PRISTA® MTL 46 is formulated with highly refined narrow-cut base stocks and an advanced additive package. This oil is recommended for use as heat transfer oil in forced circulating systems with indirect heating.

Benefits

- Suitable for use at: oil film temperatures up to 300°C and bulk oil temperatures up to 270°C
- Non- corrosive to steel and copper
- Low sludge and deposit formation tendency

Specifications

ISO 3448	VG 46
ISO 6743/12	ISO-L-QC-46
DIN	51522-Q

Typical Characteristics

Parameter	Test Method	Typical Value
Density at 20°C, g/ml	EN ISO 3675	0.873
Kinematic Viscosity at 40°C, mm ² /s	EN ISO 3104	46.3
Kinematic Viscosity at 100°C, mm ² /s	EN ISO 3104	6.7
Kinematic Viscosity at 200°C, mm ² /s	EN ISO 3104	1.5
Flash point COC, °C	EN ISO 2592	236
Flash point, PMCC, °C	EN ISO 2719	224
Pour point, °C	ISO 3016	-10
Initial boiling point, °C	ISO 3405	>330
Carbon residue contents, %	ISO 6615	0.02

Typical Design Data

Temperature, °C	Density, g/ml	Kinematic Viscosity, mm ² /s	Specific Heat capacity, kJ/kgK	Specific Heat capacity, kcal/kg°C	Thermal conductivity, W/(m.K)	Thermal conductivity, cal/(cm. s. °C)
10	0.8797	266.93	1.8384	0.4391	0.1330	3.1778E-04
15	0.8764	187.81	1.8568	0.4435	0.1327	3.1691E-04
20	0.8730	135.77	1.8748	0.4478	0.1323	3.1605E-04
40	0.8595	46.3	1.9473	0.4651	0.1309	3.1260E-04
70	0.8394	14.79	2.0561	0.4911	0.1287	3.0742E-04



80	0.8326	11.02	2.0921	0.4997	0.1280	3.0570E-04
120	0.8057	4.46	2.2370	0.5343	0.1251	2.9880E-04
130	0.7990	3.74	2.2734	0.5430	0.1244	2.9707E-04
160	0.7788	2.39	2.3819	0.5689	0.1222	2.9190E-04
200	0.7519	1.51	2.5267	0.6035	0.1193	2.8500E-04
240	0.7249	1.06	2.6716	0.6381	0.1164	2.7809E-04
250	0.7182	-	2.7080	0.6468	0.1157	2.7637E-04
280	0.6980	-	2.8169	0.6728	0.1135	2.7119E-04
310	0.6778	-	2.9253	0.6987	0.1114	2.6602E-04
320	0.6711	-	2.9617	0.7074	0.1107	2.6429E-04

Important note: typical data values do not constitute a specification but are an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved

Health, Safety and Handling

Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application.

For more information about product MSDS, terms and conditions for storage and shelf life please visit: www.prista-oil.com

Packages

210L, Bulk