Hydrogenated synthetic heat transfer oil (MDQD320)

Performance Overview

Maxtop hydrotreated synthetic heat transfer oil (MTQD320) uses high-temperature and high-pressure hydrocracking refined high-saturated hydrocarbon, low sulfur and phosphorus, impurity-free base oil, added with self-developed MAXTOP Maxtop heat transfer oil composite additives, using a number of patented formula technologies, and is developed through a number of self-developedul-tra-long-term high-temperature and oxidative anti-coking test technologies.

Features

01

Good thermal stability

02

Acid value and carbon increase are very small

03

Excellent self-cleaning properties

04

The energy-saving effect is remarkable, the service life is very long

05

Excellent low temperature fluidity

06

Comprehensively protect the metal surface from rust

07

Good thermal oxidation stability

08

good anti-coking properties

Application Scenario

Both closed or open thermal oil heating systems can be used: maximum oil film temperature 320°C, maximum main fluid temperature 300°C. The temperature of the high-level tank in contact with air in the open system is less than 70°C.

No. 138, Guanshan Road, Shuangliu District, Chengdu, China (Sichuan) Pilot Free Trade Zone
TEL: +8613541155698
TEL: +864008330667 Website: www.maxtop-oil.com

Typical data of hydrogenated synthetic heat transfer oil (MTQD320)

Project	Quality indicators
Appearance	Colorless transparent liquid
Density (20℃)/(Kg/m3)	837.1
Kinematic viscosity mm2/s not more than 40℃	20.75
Kinematic viscosity mm2/s 100℃	4.217
Kinematic viscosity mm2/s 200℃	1.29
Kinematic viscosity mm2/s 300℃	0.76
Flash point (open),℃	221
Flash point (closed cup),℃	210
Autoignition point,℃	343
Pour point,℃	-42
Copper strip corrosion (100℃ , 3h), level	1a
Carbon residue (mass fraction), %	0.02
Acid value mgKOH/g	0.02
Initial distillation point/℃	359
Distillation 2%/℃	344
Moisture (mg/kg), %	18
Thermal oxidation stability (175℃, 72h)	qualified
Thermal stability (300℃, 720h) deterioration rate is less than	10%
300℃ high temperature/90℃ oxidation for 720 hours	pass
300℃ high temperature/120℃ oxidation for 480 hours	pass
300℃ high temperature/150℃ oxidation for 240 hours	pass

Temperature℃	Temperature kg/m³	Viscosity cSt	Thermal conductivity W/m·K	Specific heat capacity kJ/kg·K	Saturated vapor pressure psi
0	992	146	0.1345	1.667	0.00
20	903	70.2	0.1337	1.821	0.00
40	870	30.6	0.1314	1.983	0.00
200	768	1.1	0.1210	2.542	0.31
300	699	0.3	0.1140	2.905	3.22
320	696	0.2	0.1126	2.929	5.07

- The above data are typical values of current products. The data of each batch of products in the future may fluctuate within the allowable range of Maxtor quality standards.

No. 138, Guanshan Road, Shuangliu District, Chengdu, China (Sichuan) Pilot Free Trade Zone
TEL: +8613541155698
TEL: +864008330667 Website: www.maxtop-oil.com