

Anti-coking Heat Transfer Oil (MTD300)

● Performance Overview

MTD300 is made of deep high temperature and high pressure hydrogenation of base oil, adding self-developed MAXTOP thermal oil compound additive, using a number of patented formula technology, through a number of self-developed ultra-long time both high temperature and oxidation anti-coking testing technology.

It has better thermal conductivity retention, system self-cleaning and long service life. According to the user's use requirements can produce in line with the national standard GB23971-2009 anti-coking heat transfer oil.

Anti-coking heat transfer oil has better high temperature resistance, oxidation resistance and coking resistance, longer service life and lower operating cost than ordinary heat transfer oil.

● Features

01

Top thermal stability,
Anti-oxidation/coking,
stable conductivity.

02

Minimal degradation,
Low acid value & carbon
buildup.

03

Self-cleaning, No
deposits/clogs, energy
-saving.

04

10+ years no cleaning,
Eco-friendly, ultra-durable.

05

Fast cold flow, Low
viscosity, efficient heat
transfer.

06

Metal protection, Low
evaporation, stable pressure.

07

Mix to upgrade,
Boosts any oil's anti-
coking.

08

No pre-heat needed,
New systems start directly.



● Application Scenario

Closed heat transfer oil heating system or open heat transfer oil heating system can be used: the maximum oil film temperature of 320°C, the maximum main body temperature of 300°C. It is recommended that the air contact temperature of the upper slot in the open system be less than 100 °C.



Typical data of anti-coking heat transfer oil (MTD300)

Project	Quality index
appearance	Colorless transparent liquid
Density (20°C)/(Kg/m ³)	837.1
Kinematic viscosity mm ² /s is not greater than 40°C	20.75
Kinematic viscosity mm ² /s 100°C	4.217
Kinematic viscosity mm ² /s 200°C	1.29
Kinematic viscosity mm ² /s 300°C	0.76
Flash point (opening), °C	221
Flash point (closed), °C	210
Spontaneous ignition point, °C	343
Pour point, °C	-42
Copper corrosion (100°C,3h), grade	1a
Carbon residue (mass fraction), %	0.02
Acid value mgKOH/g	0.02
Initial distillation point /°C	359
Distillate 2%/°C	344
Moisture (mg/kg), %	18
Thermal oxidation stability (175°C, 72h)	Up to standard
Thermal stability (300°C,720h) metamorphism rate is less than	10%
High temperature coking resistance test (Max Heating at allowable operating temperature (300°C), 96h)	
Viscosity increase (40°C) /% is not greater than	40
Acid value increase (in KOH) mg/g is not greater than	0.8
The increase of carbon residue by % is not greater than	0.8
Increased residue (mg/100g)	50
Container wall chroma change, (level)	
The oxygen-rich zone is not greater than	1
The convective exchange area is not greater than	1
The high temperature heating area is not greater than	1

● 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.

