Anti-coking Heat Transfer Fluid (MTD300)

Performance Overview

MTD300 is made of deep high temperature and high pressure hydrogenation of base oil, adding self-developed MAXTOP Heat transfer fluid 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 fluid.

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

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Typical data of anti-coking Heat transfer fluid (MTD300)

Project	Quality index
appearance	Colorless transparent liquid
Density (20℃)/(Kg/m3)	837.1
Kinematic viscosity mm2/s is not greater 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 (opening), ° C	221
Flash point (closed), ° C	210
Spontaneous ignition point, ° C	343
Pour point, ° C	-42
Copper corrosion (100℃,3h), grade	1a
Carbon residue (mass fraction), %	0.02
Acid value mgKOH/g	0.02
Initial distillation point /℃	359
Distillate 2%/℃	344
Moisture (mg/kg), %	18
Thermal oxidation stability (175℃, 72h)	Up to standard
Thermal stability (300℃,720h) metamorphism rate is less than	10%
High temperature coking resistance test (Max Heating at allowable operating temperature (300℃), 96h)	
Viscosity increase (40℃) /% 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.

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