Special electric heating thermal fluid (MTEH350)

Performance Overview

Maxtop special electric heating heat transfer fluid series products use ultra-high viscosity index synthetic base oil, added with self-developed MAXTOP Maxtop heat transfer oil compound additives, use a number of patented formula technologies, and are developed through a number of self-developed ultra-long-term anti-coking test technologies that are both subjected to high temperature and oxidation， It has better thermal oxidation stability, better anti-coking performance, and lower evaporation loss. It is particularly suitable for open systems where electric heating rods directly heat the thermal oil.

Features

01

Higher flash point, smaller evaporation loss, more suitable for open system contact with air and thermal oxidation stability

02

Better thermal stability, better thermal oxidation stability, better anti-coking properties

03

Comprehensively protect the metal surface from rust, reduce evaporation loss and oil replenishment, and ensure stable pressure during boiler system operation.

04

It can be mixed with other brands of the same type of heat transfer oil and can significantly improve the anti-coking level of the original heat transfer oil and thermal oxidation stability

05

It is not easy to form coke on the surface of the electric heating rod or the electric heating equipment, thereby achieving energy saving and consumption reduction

06

We have developed a variety of electric heating thermal oils to facilitate users with special needs. The air contact temperature ranges from 120℃ to 250℃, and the main body heating temperature ranges from 300℃ to 350℃

Application Scenario

It is recommended to use an open thermal fluid heating system, and the contact air temperature can be greater than 120℃. Especially for special electric heating systems that cannot be isolated from air: such as electric heating jacketed pots, electromagnetic heaters, mold temperature controllers, electric heating reactors, jacketed reactors that cannot be closed, open heating equipment in laboratories, etc. The maximum oil film temperature is 320℃~360℃, and the maximum main fluid temperature is 300℃~350℃.Although this product can be fully applied to open systems, in order to extend the service life and save energy as much as possible, the amount of air contact should be reduced as much as possible during use.

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Typical data of Mineral heat transfer fluid (MTEH350)

Project	Quality indicators
Appearance	Transparent liquid
Density (20℃)/(Kg/m3)	835
Kinematic viscosity mm2/s not more than 100℃	22.5
Kinematic viscosity mm2/s not more than 200℃	4.28
Kinematic viscosity mm2/s not more than 300℃	1.92
Kinematic viscosity mm2/s not more than 350℃	1.44
Flash point (open),℃ not less than	310
Autoignition point,℃	410
Pour point,℃	-18
Copper strip corrosion (100℃ , 3h), level	1a
Steel sheet corrosion (100℃ , 3h), level	1a
Distillation 2%/℃	420
Moisture (mg/kg), %	18
Thermal expansion coefficient 1/℃	0.0007
Thermal oxidation stability (350℃*230℃, 72h)	qualified

- 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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