

## Electric oil heat transfer fluid (MTET)

### ● Performance Overview

MTET Electric oil heat transfer fluid(MTET) uses Fischer-Tropsch synthesis saturated hydrocarbon as the base oil, adds self-developed MAXTOP MTET heat transfer oil composite additives, uses a number of patented formula technologies, and is 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 resistance to high temperature deposit precipitation, self-cleaning and super long service life.

### ● Features

01

Excellent thermal oxidation stability, excellent thermal stability

02

Significant energy saving effect and ultra-long service life.

03

During operation, the acid value and carbon increase of the heat transfer oil in the electric oil heater are very small.

04

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

05

The surface of the electric heating rod is not prone to coking, which does not affect heat transfer and eliminates the worry of burning the electric heating rod.

06

Excellent low temperature fluidity, easy cold start, moderate viscosity and faster heat transfer.



### ● Application Scenario

Electric oil heat transfer fluid is mainly used in various types of electric oil heaters, hand warmers and other household heating equipment. The maximum oil film temperature is 320°C, and the maximum main fluid temperature is 300°C. The temperature of contact with air is greater than 110°C. When using, the sealing cover must be covered and no air leakage is allowed.



# Electric oil heat transfer fluid (MTET)

## Performance indicators

Project	Quality indicators
Appearance	Colorless transparent liquid
Density (20°C)/(Kg/m <sup>3</sup> )	837.1
Kinematic viscosity mm <sup>2</sup> /s not more than 40°C	20.75
Kinematic viscosity mm <sup>2</sup> /s 100°C	4.217
Kinematic viscosity mm <sup>2</sup> /s 200°C	1.29
Kinematic viscosity mm <sup>2</sup> /s 300°C	0.76
Flash point (open), °C	221
Flash point ( closed cup ), °C	210
Autoignition point, °C	343
Pour point, °C	-42
Copper strip corrosion ( 100°C , 3h ), level	1a
Carbon residue (mass fraction), %	0.02
Acid value mgKOH/g	0.02
Initial distillation point/°C	359
Distillation 2%/°C	344
Moisture (mg/kg), %	18
Thermal oxidation stability (175°C, 72h)	qualified
Thermal stability (300°C, 720h) deterioration rate is less than	10%
300°C high temperature/70°C oxidation for 720 hours	pass
300°C high temperature/90°C oxidation for 480 hours	pass
300°C high temperature/120°C oxidation for 240 hours	pass

● 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.

