PanaOIL
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HITERM 300

Mineral oil based heat transfer fluid

Description

HITERM 300 is formulated with a selected mineral base oil and designed for use in closed indirect heating systems. It has good oxidation stability and thermal cracking resistance. It provides extended oil life, efficiency in fluid heating, and good pump pumpability at the start as long as maximum boiler wall temperature does not exceed the limits.

Applications

HITERM 300 is suitable for enclosed heat transfer system that required mineral oil. It has maximum boiler outlet temperature of 300 °C and maximum boiler wall temperature of 320 °C.

Specification Meets:

DIN 51 522 requirement, classiffied as ISO 6743-12 Family Q.

Advantages

- Excellent resistance to thermal cracking and decomposition up to maximum boiler temperature of 320 °C.
- Good oxidation and thermal stability.
- Good rust and corrosion protection.
- Good filter ability characteristics.
- High heat and thermal conductivity provide more rapid heat dissipation.
- Resistant to sludge formation.
- Foam protection

Typical Data of HITERM

Characteristics	Unit	HITERM 300	Test Method
Color		L 0.5	ASTM D 1500
Density @ 15 °C	kg/L	0.8535	ASTM D 4052
Kinematic Viscosity @ 40 °C	cSt	30.02	ASTM D 445
Kinematic Viscosity @ 100 °C		5.37	
Viscosity Index		113	ASTM D 2270
Flash Point (COC)	°C	234	ASTM D 92
Pour Point	°C	-24	ASTM D 97
Sequence I : 24 °C	mL	0/0	ASTM D 892
Sequence II : 93.5 °C		10/0	
Sequence III : 24 °C after 93.5 °C		0/0	
Total Acid Number	mg KOH/g	0.024	ASTM D 664
Conradson Carbon Residue	%wt	0.03	ASTM D 189
Water Separability @54.0 °C	min (ml/ml/ml)	5' (40/40/0)	ASTM D 1401
Distillation Range :	°C		ASTM D 1160
Initial Boiling Point		366.8	
5% Distilled		402.0	
10% Distilled		435.3	
95% Distilled		490.7	
Final Boiling Point		501.1	

** the typical characteristic mentioned represent mean values*

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