PETROMIN

PRODUCT DATA SHEET

PETROTHERM HS

Petromin PetroTherm HS is is high temperature, liquid phase heat transfer fluid and offers excellent thermal stability. It needs minimum / no maintenance and extremely low / rare top-ups, which works out to be economical.

BENEFITS

- Performance – Petromoin PetroTherm HS can deliver many years of reliable, trouble-free operation, even when operating continuously at the recommended maximum temperature.
- Excellent Thermal Properties – High heat transfer coefficient rates, along with higher operating efficiency.
- Excellent resistance to fouling – It resist solids formation, system fouling which provides reliable operation and cost savings.

APPLICATIONS

Petromin PetroTherm HS is designed for use in non-pressurized/low- pressure, indirect heating systems. This will minimize the formation of low boilers and does eliminate the risk of high boiler formation and fouling, with proper system design and operating within the specified temperature range.

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PRODUCT CHARACTERISTICS*

PROPERTIES	UNITS		VALUE
Appearance	Visual		Clear pale yellow Liquid
KV @ 40°C	ASTM D 445	mm^2/S	29.6
KV @ 100°C	ASTM D 445	mm^2/S	3.8
Bulk Temperature	ASTM D6743	°C	345
Maximum Film Temperature	ASTM D6743	°C	375
Flash Point COC	ASTM D 92	°C	170
Auto ignition Temperature	DIN 51794	°C	399
Pour Point	ISO 3016	°C	-32
Coefficient of thermal expansion			0.0009/°C
Vapor Pressure @ 250°C	ASTM D 2879	kPa	9.25
Vapor Pressure @ 300°C	ASTM D 2879	kPa	30.73
Vapor Pressure @ 350°C	ASTM D 2879	kPa	85.74
Thermal Conductivity @ 250°C	ASTM D 2717	W/(m.K)	0.1
Thermal Conductivity @ 300°C	ASTM D 2717	W/(m.K)	0.095
Thermal Conductivity @ 350°C	ASTM D 2717	W/(m.K)	0.088
Specific Heat @ 250°C	ASTM D 2766	kJ/KgK	2.379
Specific Heat @ 300°C	ASTM D 2766	kJ/KgK	2.569
Specific Heat @ 350°C	ASTM D 2766	kJ/KgK	2.766
Chlorine Content	DIN 51577-3	ppm	< 10
TAN	ASTM D664	mg KOH/g	< 0.1
Moisture Content	ASTM D6304	ppm	< 150
Density @ 25°C		Kg/m^3	1005
Copper corrosion	ASTM D130		<< 1a

*The information and figures given here are typical of current production and conform to specification, minor variations may occur.