

Addotherm™ K-660

Synthetic Heat Transfer Fluid

Product Description

Addotherm™ K-660 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.

Features and Benefits

- **Performance** – Addotherm™ K-660 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.

Recommended use Temperature Range

0 °C to 350 °C.

Applications

Addotherm™ K-660 is designed for use in non-pressurized/low- pressure, indirect heating systems. This will minimize the formation of low boilers and also does eliminate the risk of high boiler formation and fouling, with proper system design and operating within the specified temperature range.

Typical Properties

	Test Method	Unit	
Appearance	Visual		Clear pale yellow Liquid
KV @ 40°C	ASTM D 445	mm ² /S	30
KV @ 100°C	ASTM D 445	mm ² /S	3.77
Bulk Temperature	ASTM D6743	°C	345
Maximum Film Temperature	ASTM D6743	°C	375
Flash Point COC	ASTM D 92	°C	175
Auto ignition Temperature	ASTM D 92	°C	399
Pour Point	ASTM D 97	°C	-32

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
IBP	ASTM D 2887	°C	359
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

Fluid Condition Monitoring Program

It is important to monitor oil conditions regularly as rates of change in physical characteristics are more significant than actual values. Addotherm™ K-660 also additionally provides free* fluid condition monitoring program, where the samples from the systems are collected, analyzed and reports are shared for corrections / improvements in the system, ensuring higher efficiency.

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