Interlube Corporation

TECHNICAL DATA SHEET

Heat Transfer Oil 22A

Overview: Interlube Heat Transfer Oil 22A is a premium quality, heat transfer fluid specially designed for sustained high temperatures in closed circulating systems equipped with expansion tanks. It offers exceptional resistance to fouling of heat transfer surfaces by sludge, varnishes, and carbon deposits. It has an operating temperature range in excess of 600° F in closed systems, and offers high thermal efficiency, low viscosity for easy economical circulation, and low volatility to reduce evaporation losses. Its specially treated saturated hydrocarbon structure offers a high degree of resistance to breakdowns during high temperature service. This product has a unique antifouling formulation, which reduces oxidation rates and prevents deposit buildups on the heat transfer surface to maintain the maximum heat transfer rates over its greatly extended service life. Please see additional notes for system operation.

Heat Transfer Oil 22 A offers exceptional heat transfer properties and long-term antifouling and high temperature stability, without the inherent environmental and human health exposure problems of many other types of transfer fluids. It is especially suited to high temperature heat transfer applications in systems for resins, plastics, asphalts, waxes, varnishes, and many other applications.

Operational Benefits: These products offer these competitive advantages to enhance your reliability:

• **High heat capacity – Max efficiency** • **High thermal stability – Extended fluid service life** • **Superior oxidation resistance – Reduced deposit formation** • **Extremely high Flash Point – Increased safety** • **Low Viscosity – Easy pumping** • **Low volatility – Reduced loss**

Application:

• **Heat transfer systems** • **Injection molding machines**

Typical Industries: This product is commonly used (but not exclusively) in the following industries:

• **Chemical manufacturing** • **Injection / Blow molding** • **Cleaners / Diaper Services** • **Asphalt processing** • **Varnish manufacturing**

Heat Transfer Oil 22A

Technical Properties

Property	Method	Typical Results
Appearance	Visual	Clear, amber fluid
Color	ASTM D-5386	<1.0
Odor	---	Mild petroleum
API Gravity	ASTM D-4052	32.9
Specific Gravity, kg/l	ASTM D-4052	0.868
Density, lbs/gal	ASTM D-7042	7.244
Viscosity ISO Viscosity Grade cSt @ 40°C cSt @ 100°C SUS @ 100°F SUS @ 210°F	ASTM D-445	 46 45.4 6.48 215 34
Viscosity Index	ASTM D-2270	100
Base Oil	---	Mineral (Group II+)
Pour Point, °C (°F)	ASTM D-5950	-15 (5)
Flash Point, °C (°F)	ASTM D-92	>216 (>420)
Fire Point, °C (°F)	ASTM D-92	>249 (>476)
Noack Volatility, %	ASTM D-5800	8.8
Heat Capacity @ 500°F, BTU/#/°F	ASTM E-1269	0.72
Thermal Expansion	ASTM E-831	.00039/ 1°F
% Saturates	UV Correl.	>99.0
Total Acid Number, mg KOH/g	ASTM D	<0.5
Operating Temperature Range (°F)	---	15.5 – 315.5 (60 – 600)

The values shown are typical of current production. All of them may vary within tolerable ranges.

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