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TECHNICAL DATA SHEET

Heat Transfer Fluid #235

Overview: Interlube Heat Transfer Fluid #235 is a premium quality synthetic heat transfer fluid specially designed for sustained high temperature use in closed circulating systems equipped with expansion tanks. It offers exceptional resistance to oxidation at high temperatures keeping sludging, varnishing, and carbon deposits to an absolute minimum. It has an operating temperature range in excess of 600° F in closed systems and offers high thermal efficiency, extremely high flash and fire points, low viscosity for easy economical circulation, and extremely low volatility to reduce losses. Its unique synthetic hydrocarbon structure offers a high degree of resistance to breakdowns, during high temperature service, which far exceeds that of conventional heat transfer oils and other synthetics. Contact Interlube for details of Thermal Capacity, Heat Capacity, Vapor Pressure, and other details.

This high-quality product not only offers exceptional heat transfer properties and long-term anti-fouling and high temperature stability but does so without the inherent environmental and human health exposure problems of many of the competitive heat transfer fluids. It is especially suited to high temperature heat transfer applications in systems for resins, plastics, asphalts, waxes, varnishes, and many other applications.

Heat Transfer Fluid #235 meets USDA requirements for incidental food contact (HTF-1 rating) and meets the standards of 21 CFR178.3570 for use as a heat transfer fluid where there is possibility of incidental food contact.

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

• **High heat capacity for maximum efficiency** • **High thermal stability – long service life** • **Superior oxidation resistance for minimal deposit formation** • **Extremely high flash point – increased safety posture** • **Low viscosity – easy pumping / high heat capacity** • **Low volatility for reduced make-up**

Application: Heat Transfer Systems

• **Heat Transfer Circulation Systems (Closed/ Open)**

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

• **Food processing** • **Pet-food processing** • **Consumer goods** • **Cosmetics** • **Meat and poultry** • **Dairy** • **Commercial laundry / diaper services** • **General manufacturing**

International Manufacturer & Distributor of the World's Finest Lubricants & Cleaning Compounds



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Technical Properties

Property	Test Method	Typical Value
Appearance	ASTM D-4176	Clear and Bright
Color	ASTM D-5386	<0.5
Odor	ASTM D-1296	Nil
Kinematic Viscosity, cSt @ 40°C	ASTM D-445	52.5
Kinematic Viscosity, cSt @ 100°C	ASTM D-445	8.5
Viscosity Index	ASTM D-2270	137
Pour Point, °C (°F)	ASTM D-5950	-50 (-58)
Flash Point (COC), °C (°F)	ASTM D-92	254 (490)
Fire Point (COC), °C (°F)	ASTM D-92	285 (545)
Noack Volatility, wt%	ASTM D-5800	0.7
Specific Gravity	ASTM D-4052	0.828
Density	ASTM D-7042	6.910
Total Acid Number, mg KOH/g	ASTM D-664	<0.03
Bromine Indes, mg BR/100g	ASTM D-2710	<200

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