

Gemini[®] High-Low Boiler PFPE Heat Transfer Fluids

HB-LB Series

Introduction:

HB-LB series are 110 °C ~260 °C boiling points heat transfer fluids for various high-tech applications in the Electrical & Electronics and Semiconductors. They have low vapor pressure and evaporation tendency, high thermal stability and wide operating temperature range, good compatibility with metals, plastics and elastomers, excellent dielectric properties and chemical inertness with no fire hazard and flash point.

Typical Properties:

	Units	LB-091	LB-092	HB-093	HB-094	HB-095	HB-096
Boiling Point	°C	110	130	165	200	230	260
Pour Point	°C	-100	-100	-99	-85	-77	-70
Density	g/mL	1.71	1.72	1.77	1.79	1.82	1.85
Kinematic Viscosity	cSt	0.77	0.96	1.7	2.4	4.4	11.5
Specific Heat	cal/g • °C	0.23	0.23	0.23	0.23	0.23	0.23
Dielectric Strength	kV 2.54mm	>40	>40	>40	>40	>40	>40
Dielectric Constant	@1kHz	1.92	1.92	1.94	1.94	1.94	1.94
Volume Resistivity	Ohm • cm	1.5×10^{15}	1.5×10^{15}	1.5×10^{15}	6×10^{15}	6×10^{15}	6×10^{15}
Thermal Conductivity	W/m • K	0.065	0.065	0.065	0.065	0.065	0.065
Water Solubility	ppm/wt	<10	<10	<10	<10	<10	<10

Features:

- HB-LB series use at temperature from 110°C to 260°C without pressure build-up and absolutely no fire hazard
- The widest boiling points among fluorinated heat transfer fluids
- Very low vapor pressure and evaporation tendency
- Outstanding non-flammability
- High thermal stability and wide operating temperature range, good compatibility with metals, plastics and elastomers
- Excellent dielectric properties and chemical inertness with no fire hazard and flash point

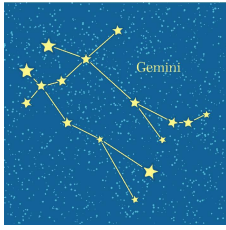
Typical Applications:

- Widely use as heat transfer fluids, vapor phase soldering fluids, thermal shock test fluids, air tight test fluids
- Heat transfer management in the photovoltaic cell manufacturing process
- Heating fluid
- Heat vector in the solar thermal industry
- Metallurgy, energy industries

Attentions:

- . During processing, wear protection clothes, be careful of eye, skin contact.
- . Keep the container sealed and store in cool, well ventilated locations.

Packaging/Transport: 25Kg,50Kg plastic container. Not classified as dangerous in the meaning of transport regulations.



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