

PIROBLOC

HEATING BETTER



HTF-PLUS

Synthetic oil for heat transfer
at high temperature

The Pirobloc HTF-PLUS are high quality heat transfer fluids for use in enclosed circulation systems.

Based on mineral oils or synthetic hydrocarbons, they are designed to effectively control the temperature of dies in pressure diecasting processes.

They are thermally stable within their quoted designed temperature range.

ADDITIONAL PRODUCT DATA

- **Specific Heats range:**
between 2.0 - 2.8 kJ/kg°K at 100°C to 300°C
- **Thermal Conductivity:**
0.13 to 0.11 W/m°K at 100°C to 300°C
- **Thermal Expansion Coefficient:**
0.0008 @ 150 C/°K

APPLICATIONS

- Circulating heat transfer systems, used for temperature control in for example high pressure die-casting operations.

RECOMMENDATION FOR USE

Use as supplied, without dilution.

BENEFITS

- High thermal stability, for longer system life
- Effective heat transfer, supports optimum shot-speeds
- Increased productivity - fewer rejects

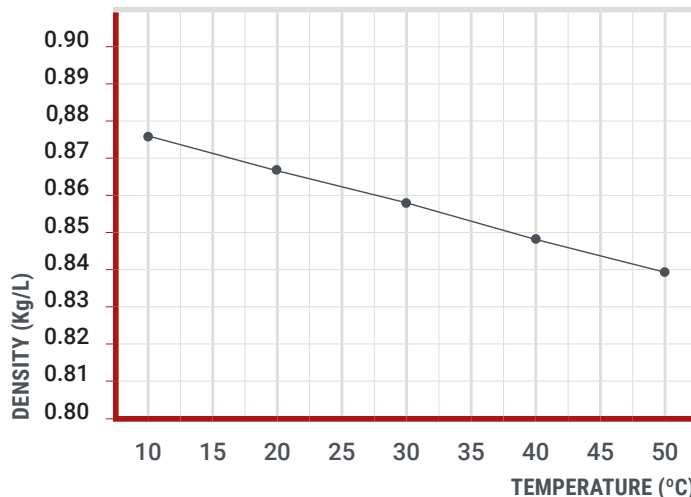
TYPICAL CHARACTERISTICS

CHARACTERISTIC	UNITS	METHOD	HTF-PLUS
Application temperature range	°C	-	-40 to 280°C
Density at 15°C/60°F	Kg/L	-	0.878
Flash point, COC	°C	-	> 190
conductivity coefficient		DIN 52612	0.111
Viscosity at 40°C	cSt	-	20,5
Viscosity at 100°C	cSt		3 - 4
Specific heat @ 300°C	cal/g		0.7
Film temperature	°C	-	305°C
Bulk temperature	°C	-	300°C
Autoignition temperature	°C	-	340°C
Destillation range	°C		300.4 - 407.5

The typical values of the characteristics appearing in the table are average values given for guidance purposes. These values may be modified without any prior warning

VARIATION OF DENSITY WITH TEMPERATURE

TEMPERATURE (°C)	DENSITY (Kg/L)
10	0.8750
20	0.8658
30	0.8568
40	0.8478
50	0.8388



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HEALTH & SAFETY AND ENVIRONMENT

lease consult the Safety Data Sheet (SDS) for information on storage, safe handling and disposal.

The conditions or methods of handling, storage, use and disposal of the product are beyond our reasonable control - we assume no liability for any ineffectiveness of the product or any injury or damage, arising out of or in connection with these conditions.