

OPTICOOL™ PE

Description

Soltex Opticool™ PE is an advanced, low-viscosity liquid immersion coolant designed for single-phase electronic cooling. Engineered for optimal thermal management, Opticool™ PE offers exceptional heat transfer, broad material compatibility, and long-term durability with minimal environmental impact. Its superior viscosity control, excellent dielectric strength, and prolonged oxidative stability enable precise temperature regulation and reliable operation, positioning Opticool™ PE as a sustainable and effective solution for high-performance thermal cooling applications.

Typical Properties	ASTM	Results
Specific Gravity @ 25°C	D-4052	0.8100
Density, 25°C, kg/mL	D-4052	810.00
Acidity, mg of KOH/100g	D-974	0.0079
Copper Corrosion 130C, 3 hr.	D-130	1b
Flash Point (PMCC), °C	D-93	174
Flash Point (COC), °C	D-92	190
Fire Point, (°C)	D-92	214
Pour Point, (°C)	D-97	- 50
Kinematic Viscosity, cSt @ 100 °C	D-445	2.45
Kinematic Viscosity, cSt @ 40 °C	D-445	8.47
Dynamic Viscosity, cP @ 100 °C	D-7042	1,87
Dynamic Viscosity, cP @ 40 °C	D-7042	6.77
Dielectric Breakdown, kV @ 1 mm	D-1816	13
Dielectric Breakdown kV @ 2 mm	D-1816	31
Thermal Conductivity, W/mk @ 25°C	D-7896	0.1458
Oxidation Rate (RPVOT), min	D-2272	3051
Thermal Expansion Coefficient, 1/K	D-1903	0.00074
Fluid Specific Heat J/g-K @ 25°C	E-1269	2.120
Natural Convection (FOM 1)	OCP 1.0	83.82
Laminar Flow (FOM 2)	OCP 1.0	33.2

* Does NOT contain fluorinated substances.

Packaging

Available in drums, totes & bulk.

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