

## OPTICOOL™ HE

### Description

Opticool™ HE is an advanced, high-performance, hydrocarbon-based, low-viscosity liquid immersion coolant designed for single-phase electronic cooling applications. Engineered as an enhanced version of Opticool™ CM, it incorporates a specialized formulation that boosts thermal efficiency, material compatibility, and long-term durability. With superior viscosity control, precise temperature regulation, exceptional oxidation resistance, and outstanding dielectric properties, Opticool™ HE delivers unmatched heat dissipation and reliability, making it the premier choice for sustainable, high-efficiency cooling systems.

Typical Properties	ASTM	Results
Specific Gravity @ 25°C	D-4052	0.8313
Density, 25°C, kg/mL	D-4052	831.26
Acidity, mg of KOH/100g	D-974	0.0028
Copper Corrosion 130C, 3 hr.	D-130	1b
Flash Point (PMCC), °C	D-93	198.0
Flash Point (COC), °C	D-92	202.0
Fire Point, (°C)	D-92	226.0
Pour Point, (°C)	D-97	- 37
Kinematic Viscosity, cSt @ 100 °C	D-445	12.22
Kinematic Viscosity, cSt @ 40 °C	D-445	3.05
Dielectric Breakdown, kV @ 1 mm	D-1816	24.0
Dielectric Breakdown kV @ 2 mm	D-1816	43.0
Thermal Conductivity, W/mk @ 25°C	D-7896	0.1439
Oxidation Rate (RPVOT), min	D-2272	1693
Thermal Expansion Coefficient, 1/K	D-1903	0.00078
Fluid Specific Heat J/kg-K @ 25°C	E-1269	2030.0
Natural Convection (FOM 1)	OCP 1.0	74.08
Laminar Flow (FOM 2)	OCP 1.0	32.69

\* Does NOT contain fluorinated substances.

### Packaging

Available in drums, totes & bulk.

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