Relatherm
Heat Transfer Fluids

RELATHERM DX-1

Immersion Cooling Dielectric Heat Transfer Fluid

1-800-387-0406
hello@relatherm.com
www.relatherm.com

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Engineered heat transfer fluid formulated for the direct immersion cooling of semiconductors, cryptocurrency miners, data servers, motors, batteries, charging stations, calibration instruments and other electronics. Relatherm DX-1 offers efficient heat dissipation while maintaining your electronics within a desirable temperature range. It is inert, non-conductive, and compatible with a wide array of materials. More importantly, the thermal fluid is non-toxic, non-hazardous and has no global warming potential.

PRODUCT HIGHLIGHTS

- High Dielectric Strength
- Optimum Temperature Control
- Safe & Responsible Chemistry: Non-toxic, non-hazardous, non-ozone depleting (non-fluorinated & non-halogenated)
- Long Service Life: Superior antioxidation technology
- Compatible with a wide array of materials

WHY RELATHERM DX-1?

Relatherm DX-1 is the result of extensive thermofluid research on electronic cooling needs. It is manufactured from a blend of high purity synthetic dielectric fluids and an advanced additive formula that translate into an extended fluid life and trouble-free operation. It has a high flashpoint, thereby providing added protection, especially in critical systems. **Relatherm DX-1** offers safe, reliable, and thermally stable electronic cooling.

HEALTH, SAFETY & THE ENVIRONMENT

Relatherm DX-1 is a non-toxic and non-hazardous heat transfer fluid. Unlike many industry fluids in its category, it is environmentally friendly and poses no known adverse effects to human beings, flora, and fauna. It has no global warming potential.
There are also no special procedures for handling and disposal.

TYPICAL PROPERTIES

Appearance	Clear, Colorless
Dielectric Strength, kV	>58
Dielectric Constant	2.2
Resistivity, Ohm.cm	>1 X 10^{14}
Flash Point, (COC) ºC/ºF	226/438
Pour Point, ºC/ºF	-68/-91
Thermal Conductivity @40ºC/104ºF, W/m-K	0.1468
Thermal Conductivity @100ºC/212ºF, W/m-K	0.1445
Heat Capacity @40ºC/104ºF, kJ/kg-K	1.565
Heat Capacity @100ºC/212ºF, kJ/kg-K	1.987
Kinematic Viscosity @ 0ºC/32ºF, cSt	105.8
Kinematic Viscosity @ 40ºC/104ºF, cSt	16.5
Kinematic Viscosity @ 100ºC/212ºF, cSt	4.0
Total Acid Number	<0.02
Density, lb/gal	6.8
Specific Gravity, 15.6ºC/60ºF	0.82
Sulphur Content, ppm	0
Thermal Expansion Coefficient, %/°C	0.066
Refractive Index, nD20	1.5
Ozone Depleting Potential	0

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* The technical information and data provide above should be considered representative or typical only and should not be used for specification purposes. Please consult a Relatherm representative with specific application details and criteria.

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