

BitCool BC-888® Dielectric Coolant

High Performance Dielectric Heat Transfer Fluid for ASICs Miners

Engineered Fluids' BitCool Dielectric Coolant is the highest performance biodegradable, non-toxic, non-corrosive heat transfer fluid available that is specifically formulated for compatibility with ASIC cryptocurrency mining devices. Now upgraded with superior heat transfer, lower viscosities, higher flammability safety margins, excellent wire insulation compatibility, and superior anti-foaming characteristics.

THERMAL MANAGEMENT APPLICATIONS:

Single-phase, Liquid Immersion Cooling (SLIC) of ASIC-based cryptocurrency mining hardware. Suitable for open and closed tank systems, BitCool can be used in single loop (dry-cooler) and in dual loop (heat exchanger and water loop) systems. This product is not for use with CPU, GPU and FPGAs based systems, due to material compatibility concerns, we recommend the use ElectroCool™ EC-110 for these solutions.

KEY PROPERTIES:

Superior Cooling Performance • Fully Biodegradable • High Fire Resistance • Zero Smell
Food Grade Certified • Non-Toxic • Non-Corrosive • Non-Allergenic • Reduced Wire Stiffening
Excellent Anti-foaming Characteristics for use in High-flow Systems

TESTED COMPATIBLE WITH MINERS:

BitCool is compatible for use with most ASICs-based mining devices. For a full list of all compatible mining devices please visit our website for the updated list of certified miners. Please see: <https://www.engineeredfluids.com/miner-compatibility-guide>.

MATERIAL COMPATIBILITY CHART:

BitCool has been tested for compatibility with more miners and more materials than any Dielectric Coolant available. For a full and updated list of compatible materials, exceptions, and implementation notes please visit our website:

Please see: <https://www.engineeredfluids.com/material-compatibility>.

PRODUCT OVERVIEW:

Engineered Fluids' BitCool is specifically formulated for material compatibility and use in Single-phase Liquid Immersion Cooling solutions for ASIC based crypto-mining equipment. BitCool has been deployed with millions of crypto-mining devices from multiple manufacturers with a zero percent failure rate due to material compatibility issues. BitCool has no smell, low foaming, no sulfur, and is fully anti-allergenic, eliminating the use of personal protective clothing, gloves, and respirators. In addition, BitCool does not break down into corrosive acids when contaminated with water and offers an extremely high level of protection against humidity, water, and particulate matter contamination.

RECOVERY, REPROCESSING, AND DISPOSAL:

Engineered Fluids offers a full range of testing, maintenance, reprocessing and disposal options for all its Dielectric Coolants, including a 100% closed cycle reprocessing process eliminating waste and enabling for 100% environmentally friendly operations.

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CHARACTERISTICS OF BITCOOL DIELECTRIC COOLANT

Product ID	BC-888
Typical Application	Single-phase Liquid Immersion Cooling For ASIC Mining
Appearance	Light Green Tint
Fluid Behavior	Non-Compressible, Isotropic, Newtonian
Dielectric Strength ¹	>40Kv
Resistivity (ohm-cm)	>1x10 ¹⁴
Dielectric Constant	2.080
Refractive Index n _D ²⁰	N/A
Pour Point (°C)	-65
Flash Point (°C)	201
ISO 4406 Particle Cnt.	17/15/12
Total Sulfur (ppm)	0
Density, g/cc @ 20°C	0.793
Coefficient of Thermal Expansion, volume/°C	0.00067
Kinematic Viscosity (cSt)	0°C
	40°C
	60°C
	100°C
Thermal Conductivity (W/m*K)	0°C
	40°C
	60°C
	100°C
Specific Heat (kJ/kg*C)	0°C
	40°C
	60°C
	100°C
Global Warming Potential	0
Biodegradability ²	>94%
Materials Compatibility Warranty ³	Yes
Shelf Life (Yrs) ³	10

1) Dielectric Strength is measured using ASTM D1816 method with 2mm electrode gap

2) Biodegradation is stated for a 28-Day Test Period. Biodegradation continues to occur after the initial test period.

3) See product specific warranty statement for terms and conditions. Shelf-Life duration is stated for an original sealed steel container, Shelf-life period is included in the warranty period..

**Need more information? Please contact us at
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**Proudly Manufactured
in the United States**

