

# BitCool BC-888<sup>®</sup> 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	>40Kv	
Resistivity (ohm-cm)	>1x10 <sup>14</sup>	
Dielectric Constant	2.080	
Refractive Index n <sub>D</sub> <sup>20</sup>	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	0.80	
Coefficient of Thermal Expansion, volume/°C	0.00067	
Kinematic Viscosity (cSt)	0°C	28.87
	40°C	7.34
	60°C	4.63
	100°C	2.36
Thermal Conductivity (W/m*K)	0°C	0.1403
	40°C	0.1351
	60°C	0.1325
	100°C	0.1273
Specific Heat (kJ/kg*C)	0°C	2.0608
	40°C	2.2121
	60°C	2.2877
	100°C	2.4390
Global Warming Potential	0	
Biodegradability	>94%	
Materials Compatibility Warranty	Yes	
Shelf Life (Yrs) <sup>2</sup>	10	

- 1) Biodegradation percentage is stated for a 30-Day Test Period, biodegradation breakdown continues to occur after the initial 30-day period.
- 2) See product specific warranty statement for terms and conditions.
- 3) Shelf Life duration is stated for a sealed original steel container, Shelf life period is included in the warranty period.

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

