



Electronics Cooling

Specialty Heat Transfer

Dielectric Fluids

BioLubricants

OptiCool Fluids
Specialty Heat Transfer Products
dsiventures.com



Electronics Cooling

Specialty Heat Transfer

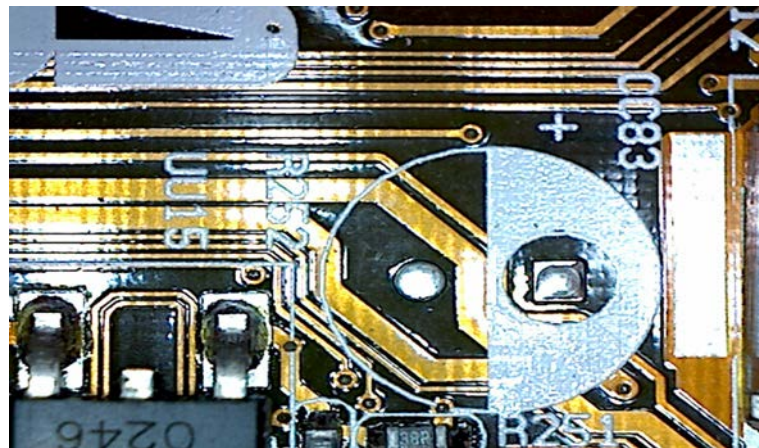
Dielectric Fluids

BioLubricants

DSI Ventures, Inc. makes oils that cool electrical circuits. Our oils are used in many industries to provide cooling and electrical insulation solutions.

Located in Tyler, Texas DSI ships worldwide and is certified to ISO 9001:2008 standards.

You'll find DSI Ventures wherever electrical circuits are cooled.





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INDUSTRIES WE SERVE

Electric Vehicles

Battery Cooling

Electric Motor Cooling

Motor Lubrication

Computing

Server Cooling

HPC Cooling

Military Mobile Computing Solutions (MMCS)

Undersea

Pressure Compensation Fluids

Instrument Cooling

Electrical Insulation

Radio Transmitting Facilities

Power transmitters, RF to Microwave

Power Distribution

Fire Resistant Insulating Oils

Solutions for Corrosive Sulfur

Aerospace

MIL-Spec Hydraulic Fluid and Coolant

Ceramics



OPTICOOOL FLUIDS

OptiCool Fluids are dielectric heat transfer fluids made from synthetic hydrocarbons. OptiCool Fluids been used since 2003 on a wide variety of circuitry and system materials.

OptiCool Fluids are biodegradable and nontoxic. They have very low Global Warming Potential (GWP).



ENGINEERED DIELECTRIC FLUIDS

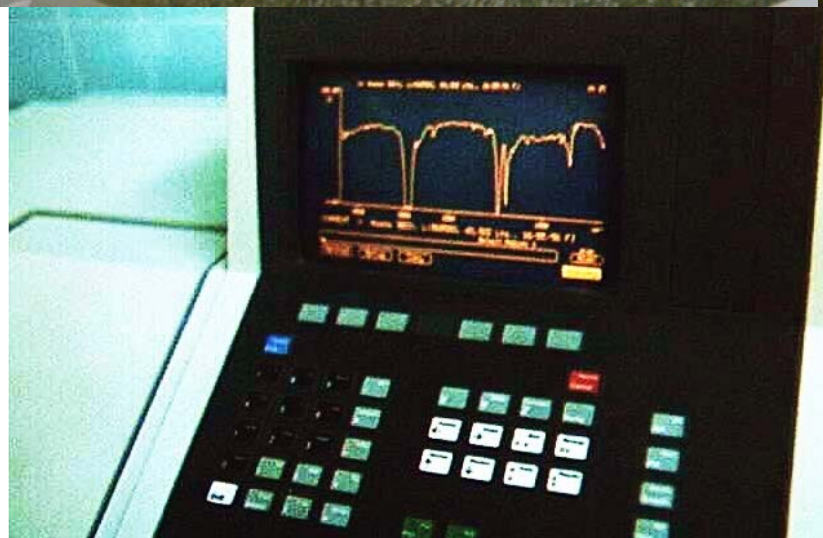
OptiCool Fluids are Engineered Dielectric Fluids. They're highly processed and made to exact specifications.

Unlike base oils, white oils or transformer oils, OptiCool Fluids are not commodities or refinery byproducts.



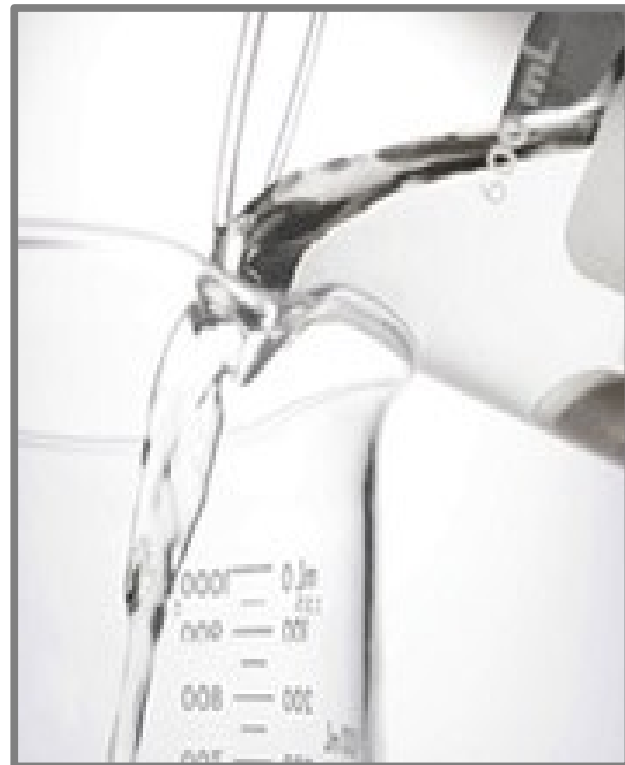
ENGINEERED DIELECTRIC FLUIDS

During processing, OptiCool Fluids are blended, then heated and dried to 10 ppm moisture content. Dissolved gases are removed. The oil is filtered, mixed with additives, packaged and tested. All in an ISO 9001 certified plant with 25 years' experience in dielectric oils.



OPTICOOL FLUIDS ARE SAFE TO USE

- OptiCool Fluids meet high safety standards.
- They meet the fire and electrical standards for high voltage transformer oil!
- Nontoxic
- Biodegradable
- No fluorine or halogens
- Clear
- Have no smell
- Non-allergenic to workers
- Meets ANSI Cleanliness Levels





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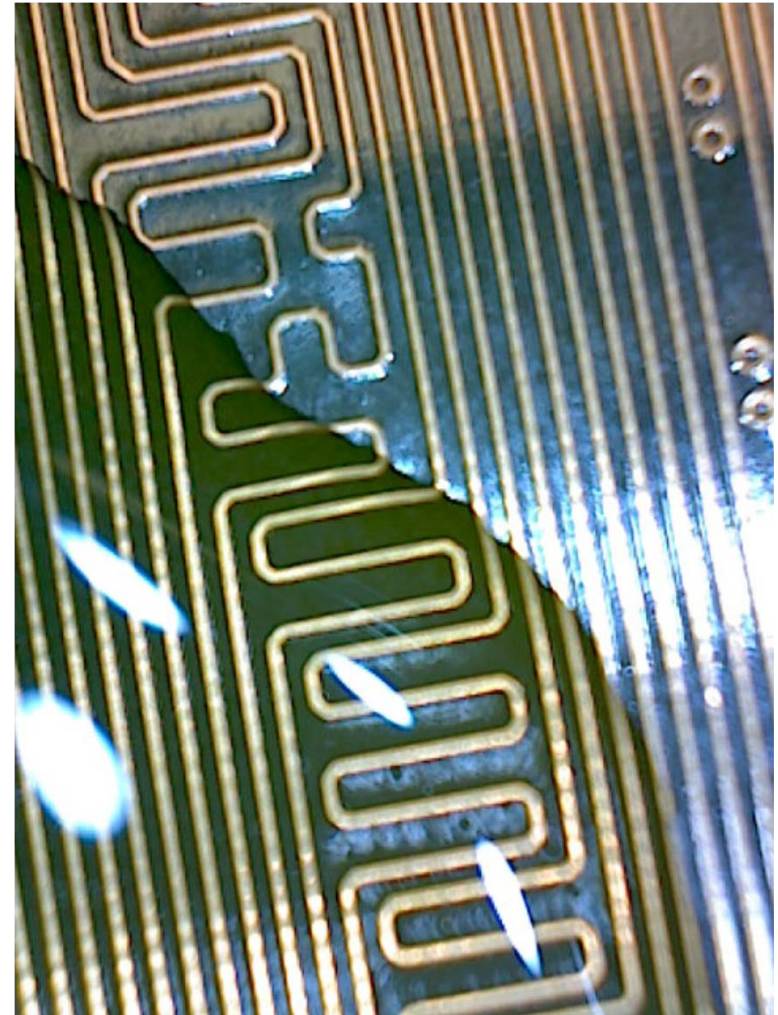
BioLubricants

THERE ARE FIVE DIFFERENT OPTICOOL FLUIDS – EACH OPTIMIZED FOR A DIFFERENT APPLICATION

Application:	Requires:	OptiCool Product:
Electronics Cooling (Immersion, single phase)	Heat Transfer, Fire Safety, Electrical Insulation	OptiCool Fluid
Automotive Motors and Batteries	Long Term Stability at High Temps	OptiCool A
Marine Hydraulics and Cooling	Biodegradation Insulation	OptiCool H
Industrial	Fire Resistance	OptiCool PH5
Aerospace & Military	Low Temp Flow, Cleanliness	OptiCool 87252

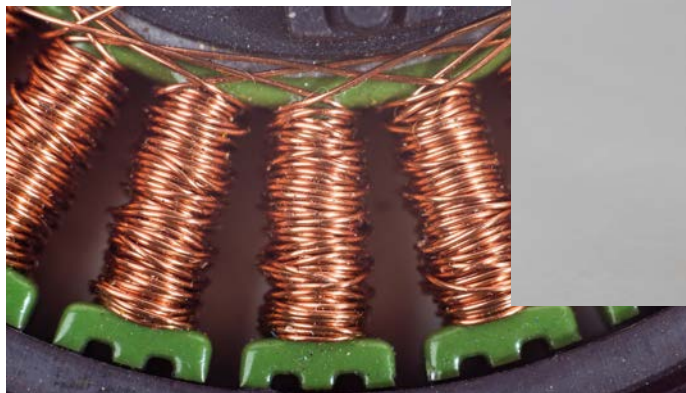
OPTICOOOL FLUID – FOR ELECTRONICS COOLING

- Liquid-phase circulating oil cooling
- Proven safety and heat transfer effectiveness
- Excellent electrical strength
- Compatibility with circuit boards, connectors, wire insulation, components, ICs



OPTICOOOL-A FLUID: AUTOMOTIVE MOTOR AND BATTERY COOLING

- Longest service life and oxidation resistance
- Low pour point ensures usability at a wide variety of application temperatures
- Biodegradable



OPTICOOL-H FLUID

HIGHLY BIODEGRADABLE AND NON-TOXIC

- For marine and environmentally sensitive applications
- Lowest viscosity of any OptiCool Fluid
- Used in pressure compensation, undersea instruments, transducers, cables, hydraulics
- Proven safety and heat transfer effectiveness



OPTICOOL 87252 FLUID – FOR MILITARY AND AEROSPACE APPLICATIONS

- Ultra-Low pour point
- Meets MIL 87252-C Specifications for Dielectric Heat Transfer Fluid
- For power transfer and insulation in avionics and aerospace systems.



OPTICOOL PH-5 FLUID – HIGHER FLASH AND FIRE POINT

- Adds an extra safety margin against fire or explosion.
- Used where risk must be minimized.
- Heat transfer, electrical insulator, or hydraulic applications.



OPTICOOL FLUIDS – SUMMARY

- OptiCool Fluids are Engineered Dielectric Oils for cooling electronic components through direct immersion or spray.
- Although each OptiCool Fluid is matched to a specific application, they can all be interchanged with one another.
- All OptiCool Fluids have excellent heat transfer characteristics – better than base oils or white oils.
- All OptiCool Fluids have been processed and tested to have high dielectric strength (>50 kV)

OPTICOOL FLUIDS – SUMMARY

- OptiCool Fluids exceed flammability and electrical standards for high voltage transformer oils.
- OptiCool Fluids are nontoxic and nonhazardous. They do not contain fluorocarbons or have a high GWP (Global Warming Potential)
- Years of testing and experience have proven OptiCool's safety and compatibility with electrical components.



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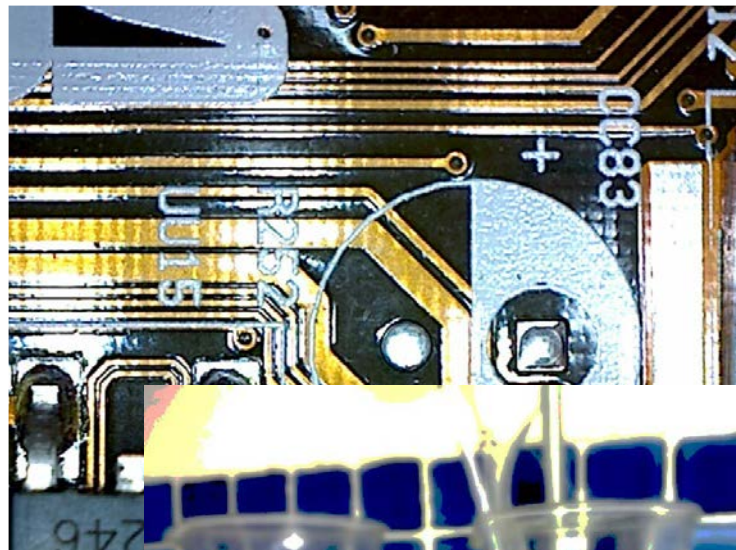
CONTACT DSI VENTURES TODAY!

Let us help you with
electrical cooling!

DSI Ventures, Inc.
1320 E. Commerce St.
Tyler, TX 75703 USA

www.dsiventures.com
sales@dsiventures.com

Tel: +1 903-526-7577
Fax: +1 903-521-0116





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THANK YOU!

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OptiCool Fluids

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