



OptiCool Fluids

Specialty Heat Transfer Products

DSI Ventures, Inc.

Since 1992, DSI has supplied specialty heat transfer and insulating oils to industry, military, utilities, and academia.

SIEMENS



HYUNDAI
HEAVY INDUSTRIES CO., LTD.



communications

NORTHROP GRUMMAN



DSI



DSI Ventures, Inc.

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



The DSI logo, consisting of the letters "DSI" in a bold, italicized, sans-serif font.



Overview: OptiCool Fluids

A product line of specialty dielectric and heat transfer fluids.

There are five different OptiCool Fluids - each optimized for a different application



DSi

Overview: OptiCool Fluids

Five Special Applications: Five OptiCool Fluids

Application:	Requires:	OptiCool Product:
Electronics Cooling (Immersion, single phase)	Material Compatibility	OptiCool Fluid
Automotive	Long Term Stability	OptiCool A
Marine Hydraulics and Cooling	Biodegradation	OptiCool H
Industrial	Fire Resistance	OptiCool PH5
Aerospace & Military	Low Temp Flow Characteristics	OptiCool 87252



OptiCool Fluids – Applications

OptiCool Fluid – For Electronics Cooling

- For Single-phase, immersion or spray cooling
- Proven compatibility with plastics, circuit boards, gaskets and O-rings
- Excellent heat transfer characteristics - cools systems efficiently.



OptiCool Fluids – Applications

OptiCool H – Environmentally Friendly and Highly Biodegradable

- Used in hydraulics, electronics cooling, pressure compensation.
- Special additives enhance biodegradation in case of a spill
- Non-toxic to marine organisms

OptiCool Fluids – Applications

OptiCool A – “Fill for life” applications

- OptiCool A has advanced oxidation resistance and longer service life.
- Ideal dielectric and coolant in new Electrical Automotive applications
- Lightest weight of any special heat transfer fluid



OptiCool Fluids - Applications

OptiCool 87252 – Military and aerospace

- Complaint with MIL Spec 87252C
- Dielectric and cooling fluid with ultra-low pour point
- Avionic cooling systems
- Avionic hydraulic systems



OptiCool Fluids – Applications

OptiCool PH-5 – Higher flash point

- Process cooling applications where flammability risks must be minimized

Features & Characteristics:

All OptiCool Fluids Are Chemically Inert

OptiCool Fluids are made from synthetic paraffins and isoparaffins, known for stability and non-reactivity with other materials.



Features & Characteristics:

All OptiCool Fluids Have Excellent Heat Transfer Characteristics

- Better than white oil
- Better than transformer oil
- Better than silicone or other synthetic oils

Features & Characteristics:

OptiCool Fluids have excellent oxidation stability.

- Designed to have a useful life >40 years in closed systems.
- Analysis of service aged OptiCool Fluid shows virtually no change after 12 years of use!



Features & Characteristics:

OptiCool Fluids have high dielectric strength

- ASTM D1816 Dielectric Strength 56 kV
- ASTM D877 Dielectric Strength 49 kV
- OptiCool Fluids maintain electrical resistance despite moisture or other contamination.



Features & Characteristics:

OptiCool Fluids have excellent compatibility with other materials

- DSI uses special additives that enhance long term compatibility with elastomers and plastics
- Years of testing and experience proves OptiCool compatibility



Features & Characteristics:

OptiCool Fluids are safe to use:

- Nontoxic
- Biodegradable
- Clear
- Have no smell
- Non-allergenic to workers
- Meets ANSI
Cleanliness Levels



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OptiCool Fluids

Highly efficient heat transfer for special applications.

For more information, call DSI Ventures, Inc.
at (+1) 903-526-7577 or visit

www.dsiventures.com

