

# DS-100<sup>®</sup> Dielectric Solvent

***Fast & Safe Removal of Dielectric Coolants, Mineral Oils and general cleaning for Immersed Devices and All Electronics***

DS-100 Dielectric Solvent is an exceptional dielectric solvent and cleaner, specifically formulated for the removal of Engineered Fluids' AmpCool<sup>®</sup>, BitCool<sup>®</sup>, ElectroCool<sup>®</sup>, and VoltCool<sup>®</sup> dielectric coolants from electrical circuitry and equipment. DS-100 can also be used to clean electronic equipment from manufacturing detritus, dust, and airborne contaminants prior to immersion. In addition, DS-100 can be used to fully remove all hazardous residue from electronic equipment, enclosures, tanks, hoses, pumps, and dry coolers that have been used with mineral oil and other hydrocarbons.

DS-100 does not contain halogenated solvents or other hazardous ingredients. DS-100's high dielectric strength enables it to be used safely on all types of electrical apparatus without danger of electrical shorts or unintended arcing during operation.

DS-100 Dielectric Solvent removes both synthetic and hydrocarbon-based fluid coolants but is safe for use on plastic and rubber components. Unlike other solvents, DS-100 can be used without extensive protective equipment, and its high flash point provides an unprecedented degree of user safety. Good engineering practice and common-sense chemical precautions including good ventilation should be adhered to with the use of all solvents.

## **KEY PROPERTIES:**

Premixed & easy-to-use • Contains no water • Evaporates completely, leaves no residue  
High Flashpoint • High Dielectric Strength • No hazardous ingredients as defined by the EPA  
• No OSHA PEL or ACGIH TLV listed ingredients • No SARA or RCRA listed ingredients

## **APPLICATIONS:**

DS-100 Dielectric Solvent is formulated for use in spray and full immersion dip tanks for the complete removal of Engineered Fluids' dielectric coolants from servers, ASIC Miners, electric circuitry and other electrical equipment that has been immersed.

DS-100 Dielectric Solvent will remove all residual coolant so that equipment can be maintained or returned to standard air-cooled service or repaired using soldering or other standard repair practices.

## **APPLICATION DIRECTIONS:**

Use undiluted. Remove electrical equipment from dielectric coolant and allow at least 15 minutes for residual coolant to flow off device. Residual coolant should be recovered in a clean dry container and can be returned for use if not contaminated. Apply DS-100 by spray, wipe, brush, or dipping. When spraying or brushing apply a light coat first and allow DS-100 a minimum of 5 minutes to work in fully, then follow with another light coat as a rinse. When dipping, immerse the device fully in DS-100 for 15-20 while agitating device gently in the fluid. DS-100 also works exceptionally well in filtered or unfiltered parts washers. Reapply if additional cleaning is required. Allow device to dry thoroughly in a well-ventilated work area. DS-100 is flammable so avoid fire or ignition sources in work area.

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## CHARACTERISTICS OF DS-100 DIELECTRIC SOLVENT

Characteristics	ASTM Reference	Value
Appearance	n/a	Clear Amber
Autoignition Temperature	ASTM E-659	220C / 428F
Boiling Point, (IPB)	Calculated	176C / 349F
Dielectric Strength (volts)	ASTM D-877	46kV
Flash Point, Tag Closed Cup	ASTM D-93	64C / 147F
Kauri-Butanol No.	ASTM D-1133	58
Moisture Content, ppm	ASTM D1533B	<150
Non-Volatile Residue, ppm	ASTM D-2369	<100
Density, g/cm <sup>3</sup> (15.6C / 60F)	Calculated	0.81
Specific Gravity (15.6C / 60F)	ASTM D-287	0.8112
Pour Point	ASTM D-97	-40C / -40F
Power Factor, % @ 25° C	ASTM D-924	0.065
Solubility in Water (% @ 68° F)	Calculated	<0.10
Vapor Pressure	ASTM D-2879	0.3mm Hg / 0.4kpa
VOC Content	Calculated	810 grams/liter
Shelf Life <sup>1</sup>	n/a	1 Year from Manufacturing Date

1) Shelf Life period is stated for a sealed original container.

### SAFETY AND HANDLING PRECAUTIONS:

Contains hydrotreated distillate. Always use with adequate ventilation. Avoid inhalation of vapors. May cause dizziness or headache. Avoid prolonged or repeated exposure to unprotected skin. Do not ingest. Avoid contact with eyes. Treat as combustible material. Keep container closed when not in use. Consult Safety Data Sheet (SDS).

### Warranty:

This product is guaranteed to meet the stated product specifications herein and not for specific application. Contact Engineered Fluids for details.

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

