

# DS-500 Nonflammable Dielectric Solvent

## *Fast and Safe Cleaning of Live Electrical Components*

Engineered Fluids' **DS-500 Nonflammable Dielectric Solvent** removes dust, oils, dirt and airborne contamination from electrically live circuitry and equipment. DS-500 dries quickly and completely. For spray cleaning of dirt and oily airborne contamination from live power distribution equipment, including transformers, switchgear, conductors and bushings.

### Key Features:

- **Nonflammable cleaning performance:** No flash point; supports cleaning operations where flammable solvents are not acceptable.
- **Cleaning Power:** Removes oils, greases, flux residues, airborne pollution and production contamination.
- **Dries quickly and completely.** Rapid evaporation with no oily residue.
- **Precision safe:** Formulated for cleaning electrical panels, busbars, electronics, aerospace components, medical devices and other high-value assemblies where cleanliness and complete drying are critical.
- **Non-ozone-depleting: ODP = 0;** suitable as a modern replacement for legacy chlorinated and fluorinated precision cleaners.



### Target Applications:

Electric motors and armatures	Circuit breakers and disconnects
Distribution panels and live electrical cabinets	Switchgear assemblies and busbars
Industrial control panels and PLC racks	Electrical relays and contactors
Transformers and bushings	Data center servers and network racks
Generators and alternators	Printed circuit boards (PCBs) and electronic subassemblies

**Composition:** Formulated from a nonflammable blend of 1,2-trans-dichloroethylene and hydrofluoroether (HFE) solvents.

**Application:** Apply DS-500 by vapor degreaser, ultrasonic tank, immersion rinse, hand wipe, brush, or controlled spray equipment. Use only with equipment designed for halogenated solvent service and with appropriate ventilation and vapor controls. Read SDS before using.

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## DS-500 NONFLAMMABLE DIELECTRIC SOLVENT

Characteristics	DS-500	Notes
Application Notes	Nonflammable Dielectric cleaner	For electrical equipment cleaning, immersion rinse and controlled spray applications
Appearance	Bright & Clear	Typical
Boiling Point	42C	Low boiling point for rapid drying
Vapor Pressure	49.1 kPa	Supports fast evaporation
Specific Gravity	1.320 g/mL	Measured at 16C
Kb Value	74	High solvency for oils and greases
Viscosity	0.41 cP	Low viscosity for penetration into small gaps and under components
Flash Point	None	Nonflammable with no flash point
Environmental Properties	GWP = 174.7 ODP = 0 VOC = 771 g/L	Use only in accordance with applicable air quality and other environmental regulations
Shelf Life <sup>1</sup>	3 Years from Manufacturing Date	Store in tightly closed original container in a dry, cool and well-ventilated area

**Safety and Handling:** Use standard PPE when handling DS-100 and DS-110 Dielectric Solvents. Avoid flame sources. Use in well-ventilated areas. Always follow standard engineering and safety practice when handling flammable materials. Consult SDS for complete handling instructions. *These products are to be used by trained professional users only. Users assume all responsibility for compliance with all applicable regulations and for risks of fire and flammability, electrical hazards, health hazards and hazards to the environment.*

**Need more information? Please contact us on [sales@engineeredfluids.com](mailto:sales@engineeredfluids.com) or +1.725.218.1980**

**Manufactured  
in the United States**

