



**GAIG**  
LABORATORIES, INC.  
1956



**DATA SHEET** *Info*

# DeoxIT® Shield S100L, S-Series Liquid (100%) Contact & Connector Protector

## 1. Part Nos.:

Part No.	% DeoxIT	Container	Size	Flammable/Nonflammable
S100L-2C	100%	squeeze tube	2 mL	nonflammable
S100P	100%	pen	6 mL	nonflammable
S100L-P6C	100%	oiler pen	6 mL	nonflammable
S50W	100%	wipes	50 count	nonflammable
K-S1W	100%	wipes	1 count	nonflammable
K-S1W-25	100%	wipes	25 count	nonflammable
K-S1W-50	100%	wipes	50 count	nonflammable
S100L-16BX	100%	brush	1.6 mL	nonflammable
S100L-2DB	100%	brush	7.4 mL	nonflammable
S100L-25C	100%	needle dispenser	25 mL	nonflammable
S100L-2	100%	bottle	59 mL	nonflammable
S100L-12	100%	bottle	354 mL	nonflammable
S100L-32	100%	bottle	944 mL	nonflammable



## 2. Formulation:

100% DeoxIT® Shield S100L, S-Series



## 3. Product Description:

Contact lubricant and protectant for metal surfaces. Oxidation and corrosion deterrent. Improves conductivity, maintains optimum signal quality. DeoxIT® Shield also reduces wear and abrasion, arcing, RFI and intermittent connections and improves connector performance/reliability. Ideal for severe environments. On oxidized surfaces, pre-treat with DeoxIT® D-Series contact cleaner. Temperature range: -34°C to +210°C.



Home of the DeoxIT® family of  
Environmentally-Safer Contact Cleaners and  
Connector Enhancing Treatments  
Made in USA



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#### 4. Features/Benefits:

**100% Liquid, Safe on plastics.**

DeoxIT® Shield S100L concentrate has 0.0% chemical cleaning action.

Ideal for severe environments (humidity, salts, pollutants, sulfur, etc.)

Excellent protection, good conductivity enhancing, excellent lubrication.

Creates a long lasting barrier against oxidation and corrosion.

No ozone depletion.

Reduces intermittent connections, arcing, RFI, wear and abrasion..

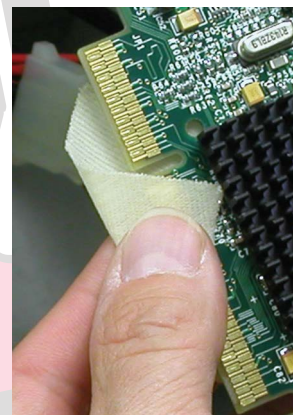
**Cleaner Audio - Clearer Video - Reliable Data.**

#### 5. Which DeoxIT® product do I Use:

- ▶ Use **DeoxIT® D-Series** contact cleaner on surfaces that have been in service or have visual signs of oxidation. Contains 20% active cleaner.
- ▶ Use **DeoxIT® Gold G-Series** conditioner on new surfaces, and gold plated surfaces. Ideal for preventing dendrite/fretting corrosion. Protects both surface and base metals. Ideal for critical applications. Contains >1% active cleaner.
- ▶ Use **DeoxIT® Shield S-Series** to protect surfaces from severe environments (humidity, salts, pollutants, sulfur, etc.). Use on clean surface. Contains 0% active cleaner.

#### 6. Directions for Use:

1. Turn off, unplug the device.
2. On surfaces that have been in service or have visual signs of oxidation or corrosion pre-treat with DeoxIT® D-Series contact cleaner (see Data Sheet DeoxIT® D-Series).
3. Next, select a DeoxIT® Shield S-Series applicator (pen, wipes, needle, etc.) that is best for your application, see #8 below. Apply a small amount to the metal contact/connector surface.
4. Operate the part/device to help distribute the DeoxIT® Shield. **Test for compatibility before use.**
5. Re-apply DeoxIT® Shield to metal surface and wipe off excess. It is important to wipe off excess, DeoxIT® Shield works best when a thin coating is on metal surfaces. Wait two minutes before turning on equipment. **Test for compatibility before use.**
6. **For extended protection:** For **severe environments** (humidity, salts, pollutants, sulfur, outdoor applications, etc.) and to apply an additional environmental barrier, apply one of the DeoxIT® Greases. See Data Sheets DS-L260 and DS-M260 for additional information;  
Link: <http://store.caig.com/s.nl/sc.2/category.185/f>
7. **Applicators:**
  - a) **Squeeze Tube** (#S100L-2C): Used by OEMs for maintenance kits. Provides small drop to surface.
  - b) **Pen - felt tip** (#S100P): Precision application, slight abrasive action. Provides liquid through felt tips. Replacement tips available.
  - c) **Oiler Pen** (#S100L-P6C): Very precise application of fluid. Provides pin-point application of liquid. Ideal for hard to reach applications.
  - d) **Oiler Squeeze Bottle** (#S100L-25C): Similar to Oiler Pen, except in squeeze bottle.
  - e) **Wipes** (#K-S1W-25 and K-S1W-50): Individual packaged wipes (thin paper





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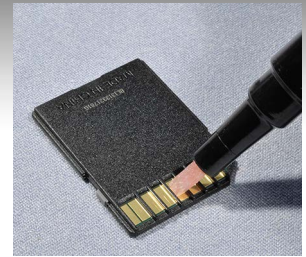
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material). For connections easily accessible and smooth surfaces, i.e. audio/video connections, batteries, etc.

- f) Wipes (#K-S50W): Jar with 50 wipes (thick cotton material). For connections easily accessible accessible and smooth and irregular surfaces, i.e. edge connectors, industrial connections.
  - g) Brush (#S100L-2DB): Small 7.4 mL bottle with brush applicator. General purpose for applying liquid with a nylon brush. Ideal for applying to outer and inner surface with wiping action. Care should be taken to keep brush clean.
  - h) Bulk Bottles (#S100L-2, S100L-12, S100L-32): For production applications. Contact CAIG for information.
9. **NOTE:** For Field Service use, see Bulletin "Field Service 9-1-1" (<http://store.caig.com/s.nl/it.l/id.56/f>). For Manufacturing/OEMs see Bulletin "Manufactruing/OEM 9-1-1" (<http://store.caig.com/s.nl/it.l/id.61/f>).



### 7. Other Applicators:

Part No.	% DeoxIT®	VOC (%)	Applicator	Size	Flammable/Nonflammable
SN5S-6N	5%	0%	spray	163 g	nonflammable
SN5S-2N	5%	0%	mini-spray	40 g	nonflammable
S100S-2	100%	0%	spray	57g	nonflammable
S5L-A (bulk)	5%	75%	bottle/drum	assort.	flammable

### 8. DeoxIT® Essential Reference:

**DeoxIT® D-Series** - Brings old systems back to life!

**DeoxIT® Gold G-Series** - Maintains new system performance!

**DeoxIT® Shield S-Series** - Maintains new system performance for severe environments!

**DeoxIT® Fader F-Series** - Clean, lubricate & protect conductive plastic and carbon compound faders!

### 9. Product Selection Guides:

#### DeoxIT® - Product Selection Guide

	DeoxIT®	DeoxIT® GOLD	DeoxIT® GOLD GxL	DeoxIT® GOLD Gx2	DeoxIT® SHIELD	DeoxIT® FaderLube
New Surfaces		✓	✓	✓	✓	✓
* In Service / Used	✓					✓
Gold surfaces		✓	✓	✓		
Oxidation / corrosion visible	✓					
Conductive plastics						✓
** Outdoor / Severe environments	✓					✓
Deoxidizing / cleaning properties	20%	0.1%	0.1%	0.0%	0.0%	0.0%
Metal / Plastic surfaces	Yes	Yes	Yes	Yes	Yes	
Plastics compatibility	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Temperature range (°C)	-34/200	-45/240	-45/310	-45/500	-34/210	-26/150
Stationary & moving surfaces	Yes	Yes	Yes	Yes	Yes	Yes
Seals & protects base metals	Good	Excellent	Excellent	Excellent	Good	No

✓ All products are Nonflammable and RoHS Compliant

\* In Service: Clean with DeoxIT®. For added protection, follow with DeoxIT® GOLD (indoors), DeoxIT® SHIELD (outdoors) or DeoxIT® Grease (additional barrier).

\*\* Severe environments: Pre-clean with DeoxIT®. Follow with DeoxIT® SHIELD or DeoxIT® Grease.

#### DeoxIT® - Spray Selection Guide

Product Series	FP	QD	NF	PC	VOC
<b>Standard - 5% solution</b> D5S-6, D5MS-15, G5S-6, G5MS-15, S5S-6, S5MS-15, F5S-6, F5MS-15	✓			✓	75% (588g/L)
<b>N Series - 5% solution</b> DN5S-6N, DN5S-2N, GN5S-6N, GN5S-2N, SN5S-6N, SN5S-2N		✓	✓	✓	0.0%
<b>X Series - 5% solution</b> GX5S-6N		✓	✓	✓	0.0%
<b>100% Spray solution</b> D100S-2, G100S-2, F100S-L2			✓	✓	0.0%

FP = Flushing properties QD = Quick dry / non drip

NF = Nonflammable PC = Plastics compatibility VOC = VOC (%)



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### 10. Materials Compatibility (Plastics, Rubber, Elastomeric and Metals):

(Rating: Not compatible, Poor, Fair, Good, Excellent), (N/A = Not applicable (no solvents and propellants)

(\* If the product is not 100% DeoxIT® then the package is rated before and after the solvents/propellants are applied to materials. Compatibility testing is always recommended)

Material Name	Rating (*100% DeoxIT®)	Rating (*with solvents)
ABS	Excellent	N/A
Nylon	Excellent	N/A
Lexan	Excellent	N/A
HDPE	Good	N/A
LDPE	Good	N/A
C.E.Phenolic	Excellent	N/A
Epoxy	Excellent	N/A
Polycarbonate	Excellent	N/A
PMMA	Fair	N/A
POM	Excellent	N/A
PP	Excellent	N/A
PS	Fair	N/A
PTFE	Excellent	N/A
PVC	Excellent	N/A
TPE/Rubber/Varnish	Poor	N/A

#### IMPORTANT:

**Rating, 100% DeoxIT®:** Any of the above that fall into the "Fair" and "Poor" categories should be thoroughly tested for compatibility. They may be compatible, however, it will depend on the manufacturing process of the materials. Acrylics, ABS, and polycarbonate, if under stress, may show slight cracking or crazing damage. Test for compatibility before use. On porous materials; i.e. wood, rubber, cloth, some phenolics, semi-cured materials, no liquid or solvents should be used. Occasionally, DeoxIT® will get onto unwanted surfaces, quickly wipe off surface and usually no damage will occur.

### 11. Shipping and Additional Information:

Hazardous: No No Shipping Restrictions  
VOC (%): Part No. S100L, 100% No VOCs

### 12. Other Information:

RoHS Compliant: YES  
VOC Compliant: YES

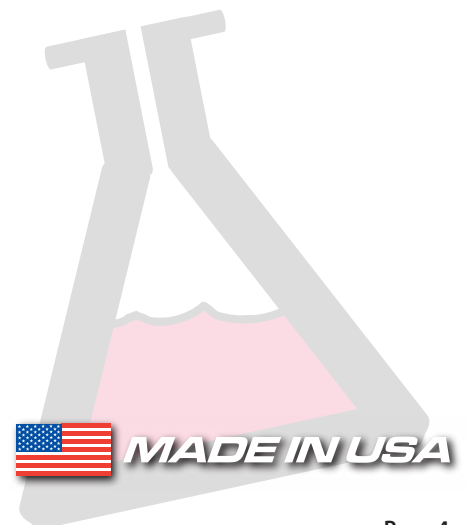


#### CAIG Laboratories, Inc.

12200 Thatcher Court, Poway, CA 92064 U.S.A.

P: 858/486-8388 | E: info@caig.com

WEB: www.caig.com | www.deoxit.com





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**MSDS Link, S100L**

DeoxIT® Product Sheet:

CAIG Essential Guide:

WHY DeoxIT® is Different:

<http://caig.com/material-safety-data-sheets/>

<http://caig.com/technical-data/>

<http://caig.com/product-literature/#toggle-id-1>

<http://caig.com/product-literature/#toggle-id-8>

**13. MANUFACTURER DISCLAIMER:**

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**14. Contact Information:**



**Website:** [www.caig.com](http://www.caig.com)  
[www.deoxit.com](http://www.deoxit.com)

**General email:** [info@caig.com](mailto:info@caig.com)

**Technical email:** [tech@caig.com](mailto:tech@caig.com)

**North America (Headquarters):**

**CAIG Laboratories, Inc.**

12200 Thatcher Court

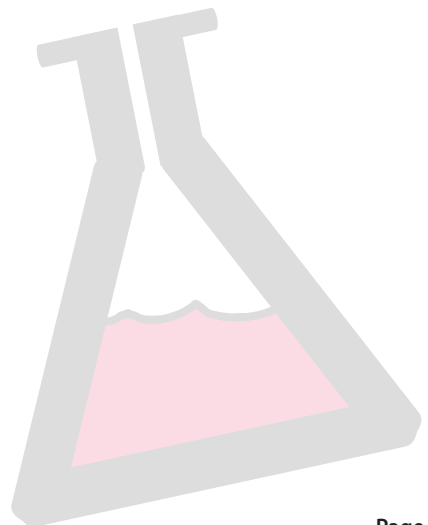
Poway, CA 92064 USA

Tel: (858) 486-8388

Fax: (858) 486-8398

**Distributors (Domestic & International):**

<http://caig.com/distributors/>



**CAIG Laboratories, Inc.**

12200 Thatcher Court, Poway, CA 92064 U.S.A.

**P:** 858/486-8388 | **E:** [info@caig.com](mailto:info@caig.com)

**WEB:** [www.caig.com](http://www.caig.com) | [www.deoxit.com](http://www.deoxit.com)