CAIG® LABORATORIES, INC.

DATA SHEET Info

DeoxIT® Gold G100L-UV, G-Series Liquid (100%)

Contact Enhancer, Conditioner & Protector

1. Part Nos.:

Part No.	% DeoxIT	Container	Size	Flammable/Nonflammable
G100P-UV	100%	pen	6 mL	nonflammable
G100L-P6C-UV	100%	oiler pen	6 mL	nonflammable
G100L-2DB-UV	100%	brush	7.4 mL	nonflammable
G100L-25C-UV	100%	needle dispenser	25 mL	nonflammable
G100L-2-UV	100%	bottle	59 mL	nonflammable
G100L-12-UV	100%	bottle	354 mL	nonflammable
G100L-32-UV	100%	bottle	944 mL	nonflammable

2. Formulation:

100% DeoxIT® Gold G100L-UV, G-Series

NO VOC's

RoHS COMPLIANT

3. Product Description:

Unique contact cleaner, conditioner, enhancer, lubricant and protectant for PLATED metal surfaces. Improves conductivity, maintains optimum signal quality, reduces fretting & dendrite corrosion, and stabilizes connections between similar and dissimilar metals. Molecularly bonds to both base-metals and plated surfaces and seals out oxygen, protecting both surfaces. The DeoxIT® Gold coating is excellent at reducing wear abrasion, arcing, RFI and intermittent connections and improves connector performance/reliability. Ideal for gold plated surfaces. On oxidized surfaces, pre-treat with DeoxIT® D-Series contact cleaner. Includes UV Tracer Dye. View with Long Wave UV at 365nm.
Temperature* range: -45 to +240°C.

4. Features/Benefits:

100% Liquid, Safe on plastics.

DeoxIT® Gold G100L concentrate has approximately 0.5% chemical cleaning action. Excellent conductivity enhancing, excellent protection, minimum cleaning/deoxidizing, no ozone depletion. Prevents dendrite and fretting corrosion. Protects base metals.

*** NOTE:** Temperature ranges may vary depending on conditions.
On critical applications, independent testing is highly recommended.

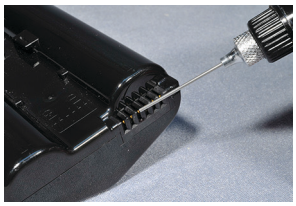
Reduces intermittent connections, arcing, RFI, wear and abrasion. Ideal for both stationary and moving (vibration) connections.
Cleaner Audio - Clearer Video - Reliable Data.

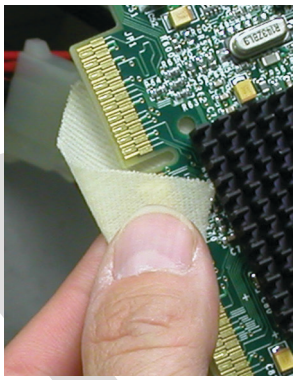
5. Which DeoxIT® product do I Use:

- 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:

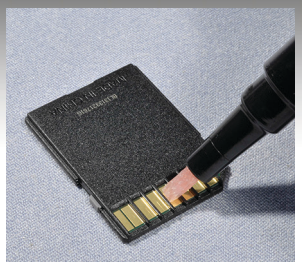
1. Turn off, unplug the device.
2. On surfaces that have been in service or have visual signs of oxidation or corrosion pre-treat with DeoxIT® D-Series contact cleaner (see Data Sheet DeoxIT® D-Series).
3. Next, select a DeoxIT® Gold G-Series applicator (pen, wipes, needle, etc.) that is best for your application, see #8 below. Apply a small amount to the metal contact/ connector surface.
4. Operate the part/device to help distribute the DeoxIT® Gold and break up minor amounts of oxides and contamination. **Test for compatibility before use.**
5. Re-apply DeoxIT® Gold to metal surface and wipe off excess. **It is important to wipe off excess,** DeoxIT® Gold works best when a thin coating is on metal surfaces. Wait two minutes before turning on equipment. **Test for compatibility before use.**
6. If you notice a green or black coloration on the surface (may take a few days) after applying DeoxIT® Gold, this indicates dissolved oxidation (surface was severely oxidized). Follow step "2-5" above one more time.
7. For severe environment protection: After surface is clean, apply DeoxIT® Shield S-Series for outdoor and severe environments (humidity, salts, pollutants, sulfur, etc.).
8. **Applicators:**
   a) **Squeeze Tube** (#G100L-2C): Used by OEMs for maintenence kits. Provides small drop to surface.
   b) **Pen - felt tip** (#G100P): Precision application, slight abrasive action. Provides liquid through felt tips. Replacement tips avaialble.
   c) **Oiler Pen** (#G100L-P6C): Very precise application of fluid. Provides pin-point application of liquid. Ideal for hard to reach applications.
   d) **Oiler Squeeze Bottle** (#G100L-25C): Similar to Oiler Pen, except in squeeze bottle.
   e) **Wipes** (#K-G1W-25 and K-G1W-50): Individual packaged wipes (thin paper material). For connections easily accessible and smooth surfaces, i.e. audio/video connections, batteries, etc.
   f) **Wipes** (#K-G50W): 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** (#G100L-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** (#G100L-2, G100L-12, G100L-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
G5S-6	5%	75%	spray	142 g	flammable
GN5S-6N	5%	0%	spray	163 g	nonflammable
GN5S-2N	5%	0%	mini-spray	40 g	nonflammable
G100S-2	100%	0%	spray	57g	nonflammable
G5L-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

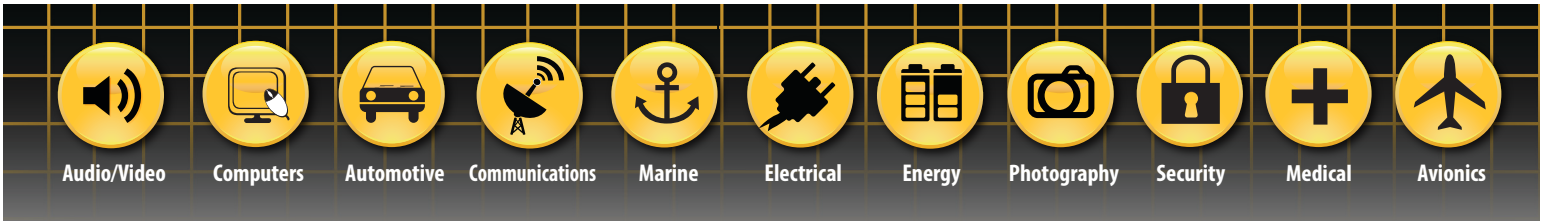
	DeoxIT®	DeoxIT® GOLD	DeoxIT® GOLD Gx1	DeoxIT® GOLD Gx2	DeoxIT® SHIELD	DeoxIT® FaderLube
New Surfaces		✔	✔	✔	✔	✔
* In Service / Used	✔					✔
Gold surfaces		✔	✔	✔		
Oxidation / corrosion visible	✔					
Conductive plastics						✔
** Outdoor / Severe environments	✔					✔
Deoxidizing / cleaning properties	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
Standard - 5% solution D5S-6, D5MS-15, G5S-6, G5MS-15, S5S-6, S5MS-15, F5S-6, F5MS-15	✔			✔	75% (588g/L)
N Series - 5% solution DN5S-6N, DN5S-2N, GN5S-6N, GN5S-2N, SN5S-6N, SN5S-2N		✔	✔	✔	0.0%
X Series - 5% solution GX5S-6N		✔	✔	✔	0.0%
100% Spray solution D100S-2, G100S-2, F100S-L2			✔	✔	0.0%

FP = Flushing properties QD = Quick dry / non drip
NF = Nonflammable PC = Plastics compatibility VOC = VOC (%)



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. G100L-UV , 100%	No VOCs

12. Other Information:

RoHS Compliant: YES

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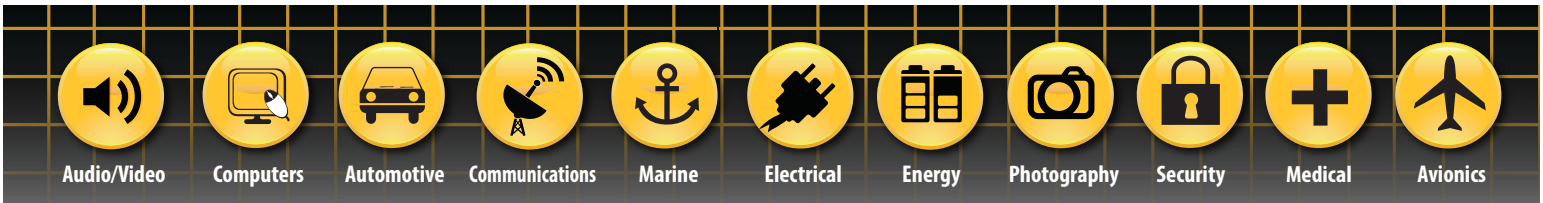

VOC Compliant:	YES
MSDS Link, G100L-UV	http://caig.com/material-safety-data-sheets/
DeoxIT® Product Sheet:	http://caig.com/technical-data/
CAIG Essential Guide:	http://caig.com/product-literature/#toggle-id-1
WHY DeoxIT® is Different:	http://caig.com/product-literature/#toggle-id-5

13. MANUFACTURER DISCLAIMER:

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14. Contact Information:

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