



# QUICK-SPECS *Info*

## QUICK SPECS FOR:

DeoxIT® D-Series (D100L)

DeoxIT® Gold G-Series (G100L)

DeoxIT® Gold Gx-Series (Gx100L)

DeoxIT® Gold Gx2-Series (Gx2)

DeoxIT® Gold Gx3-Series (Gx3)

DeoxIT® Shield S-Series (S100L)

DeoxIT® Fader F-Series (F100L)

A GENERAL INFORMATION: (1-Poor, 5-Excellent)								
Notes								
A		DeoxIT®	DeoxIT®	DeoxIT®	DeoxIT®	DeoxIT®	DeoxIT®	DeoxIT®
B		D-Series	Gold	Gold GxL	Gold Gx2	Gold Gx3	Shield	Fader
1	Product Part Number (100% concentrate)	D100L	G100L	GX100L	Gx2	Gx3	S100L	F100L
2	Use on Metals ("M"), Plastics ("P") or Both ("MP")	M	M	M	M	M	M	P
3	Deoxidizing ability (% of formulation)	20%	0.50%	0%	0%	0.50%	0%	0%
4	Use on Severely Oxidized Surfaces	(A) Yes	No <sup>(B)</sup>	No <sup>(B)</sup>	No <sup>(B)</sup>	No <sup>(B)</sup>	No <sup>(B)</sup>	NA
5	Use on Surfaces with Minor Amounts of Oxidation	(C) No <sup>(C)</sup>	Yes	Yes	Yes	Yes	No	NA
6	Use on Clean/New Surfaces	(D) No <sup>(D)</sup>	Yes	Yes	Yes	Yes	Yes	Yes
7	Improves Conductivity (1-5)	3	4	5	5	5	1	2
8	Lubricates & Protects (1-5)	3	3	3	4	4	5	2
9	Reduces Fretting/Dendrite Corrosion (1-5)	3	5	5	5	5	2	1
10	Penetrates Plating and Seals Base Metals (1-5)	2	4	5	5	5	2	NA
11	Flammable/Corrosive (100% concentrate)	No	No	No	No	No	No	No
12	Easy to Remove and Re-apply (1-5)	5	5	5	5	5	4	4
13	Effectiveness - length of time before re-application (1-5)	(E) 3	4	4	4	4	5	3
14	Shelf Life - storage (years)	(3-5)	(3-5)	(5-8)	(3-5)	(3-5)	(3-5)	(3-5)
15	RoHs and VOC Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes
B COMPATIBILITY: (1-Poor, 5-Excellent)								
16	Plastics Compatibility (1-5)	4.5	4.5	4.5	4.5	4.5	4.5	5
17	Effective of Moving/Vibration Surfaces (1-5)	5	5	5	5	5	5	5
18	Effective on Gold Surfaces (1-5)	4	5	5	5	5	3	NA
19	Effective on LOW (µA) amperage/voltages (1-5)	4	5	5	5	5	4	2
20	Effective on HIGH (>10 amps) amperage/voltages (1-5)	(F) 4	3	3	3	3	4	2
21	Effective in Severe Environments (humidity, pollution, etc.)	2	2	2	2	2	4	1
C SPECIFICATIONS/TECHNICAL:								
22	Temperature Range (°C) - Minimum	(G) -34	-34	-45	-45	-34	-34	-26
23	Temperature Range (°C) - Maximum	(G) +200	+240	+275	+310	+240	+210	+180
24	Specific Gravity (H <sub>2</sub> O=1)	.884	.845	.845	.845	.845	.91	.93
25	Pour Point (°C) <sup>(H)</sup> (ASTM D97)	(H) <-27	<-45	<-45	<-45	<-29	<-45	<-39
26	Flash Point (°C) <sup>(I)</sup>	(I) 198	193	202	225	195	190	192
27	Vapor Pressure (mmHg @ 20°C / 68°F) (100% concentrate)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
28	% Volatile by Weight (100% concentrate)	0	0	0	0	0	0	0
29	Evaporation Rate (n-BuAc=1)	Approx. 0	Approx. 0	Approx. 0	Approx. 0	Approx. 0	Approx. 0	Approx. 0
30	Solubility in Water (25°C/77°F)	< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 0.1%
31	Viscosity (cSt @ 40°C)	30.9	38.6	36.5	37.1	37.5	43.9	39.1
32	Total Acid Number (mg KOH/g)	51.50	1.71	0.86	0.42	0.26	3.89	2.58
33	Electrical Conductivity (Siemens/m)	4.00E-10	5.98E-11	2.82E-09	4.26E-08	2.43E-08	1.27E-08	1.09E-09
34	Dielectric Constant (E <sub>r</sub> )	(J) 2.314	2.314	2.301	2.301	2.301	2.376	NA
35	Dielectric Strength (Volts/Mil)(ASTM D877-13, Procedure 1)	(J) 341	333	287	265	260	251	299
36	Insulation Resistance (Ohms)	(J) 1.25E+10	8.40E+10	1.78E+09	1.95E+09	1.83E+09	3.96E+08	4.60E+09



Audio/Video



Computers



Automotive



Communications



Marine



Electrical



Energy



Photography



Security



Medical



Avionics

## NOTES/ASTERISKS:

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(A) "Severely oxidized surfaces": Oxidation/corrosion you can visually see on the metal surfaces. If it appears clean, there maybe be oxidation on surface; however it is not severe.

(B) These items should not be applied to severely oxidized surface. First clean with DeoxIT® D-Series or other cleaning method to remove oxidation/corrosion.

(C) "Minor amounts of oxidation": Surfaces that do not appear to have oxidation (If NOT Clean/New(D)). DeoxIT® Gold and Greases will remove minor amounts. DeoxIT® D-Series can be used.

(D) "Clean/New" Surface: Our definition of a perfectly clean surface, is one that has just been manufactured and cleaned with DeoxIT® D-Series or other cleaning method.

(E) "Effectiveness": The length of time between applications is determined by severity of specs and environment. For example; in a clean room one application could last decades, or if on a naval ship inside an engine room, may require once a year. General recommendation is 1-3 years.

(F) "High Amperage/Voltages connections": DeoxIT® liquids will do a good job treating for short/medium time frames. For additional protection, use DeoxIT® Greases.

(G) "Temperature limits": Conservative values and may vary depending on environment conditions (pollution, humidity, amperage/voltages). Recommend testing if near extremes.

(H) "Pour Points" are conservative. They are also determined by many factors; humidity, energized, moving contacts, etc.). Recommend testing if application is critical and close to limits.

(I) "Flash points" are conservative. Coating will leave a permanent protective layer.

(J) All values are relative to an ambient temperature of 21.90C, using 60 Hz. Dielectric strength value is a statistical average taken from 10 measurings. Voltage measurement taken with 0.5% accuracy.

Refer to CAIG website ([www.caig.com](http://www.caig.com)) or CAIG associate (800-224-4123) for additional and detailed directions for the above Notes.

**CAIG** LABORATORIES, INC.

**DeoxIT® Selection Guide**  
DeoxIT® D-Series, DeoxIT® Gold, DeoxIT® Shield and DeoxIT® Fader

**INSTRUCTIONS:** Select answers to the questions below. Product recommendations will display.  
Info Button gives you product detail information.  
Add-to-Cart Button. Select and it will add an item to the Cart. Cart will then open a new Browser window. To add another product to Cart, go back to Selection Guide Browser.

**NOTE:** Prices on these pages are CAIG's List prices. Distributors will offer better pricing. Please visit our [Distributor Page](#) for purchasing products locally or online.

Select Conductive Material: Ferrous ☐ Non-Ferrous ☐

Select Severity of Oxidation/Corrosion: Light oxidation ☐ Moderate ☐ Severe ☐

Is surface easy to access for applying DeoxIT®? ☐ Yes ☐ No

Any sensitive materials or components near surface? ☐ Yes ☐ No

Flammability on site? ☐ Yes ☐ No

**Non-Selected = Will display all results.**  
**Yes = Means that area may have sensitive materials (components or materials) and will require no solvent or fast evaporating solvents. Always check for compatibility.**  
**No = Means that area does not have sensitive materials. Always check for compatibility.**

Found 5 products:

Product	Price
DNSS-2N	\$14.95
DNSS-6N	\$32.05
DNSS-6N-1MH	\$14.95
D100S-2	\$25.05
D100L-2SC	\$24.05

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## NEW SELECTION GUIDE!

Need assistance in selecting:  
**WHICH Product and**  
**WHICH Applicator?**

Go To CAIG's Website:

<https://caig.com/help-learn/>

**BULLETIN: SB-D-ISCT-B, Date: 5/2023**



**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)

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Connector Enhancing Treatments  
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