

DeoxIT[®] L27 Marine Grease

ARINE GREAS



UNIQUE Marine Grease for Improving and Protecting Mechanical & Electrical Performance!

Why is it unique and different !

Superior Lubrication
Remove/Displace Corrosion
Moveable/Flexible Protective Barrier
Extreme Pressure/Waterproof
Low Dropping & Oil Separation

Performance Products,

BULLETIN: TB-L27-19 URL Link: caig.com/L27.html

• Introduction:

Manufactured in semi-solid form for use as a combination cleaning, deoxidizing, protecting and lubricating preparation. DeoxIT[®] Greases protect against oxidation (galvanic corrosion) and are free of mineral acids, sulphurs, alkalis and other noxious components aggressive to metals. DeoxIT[®] Greases improve performance and reliability of electrical contacts and mechanical components that require precise lubrication.

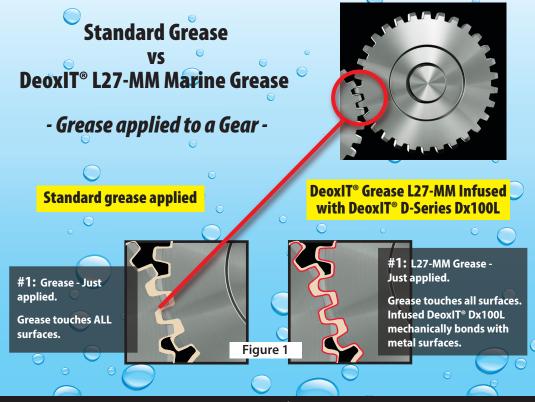
Why DeoxIT[®] L27 Grease is Unique:

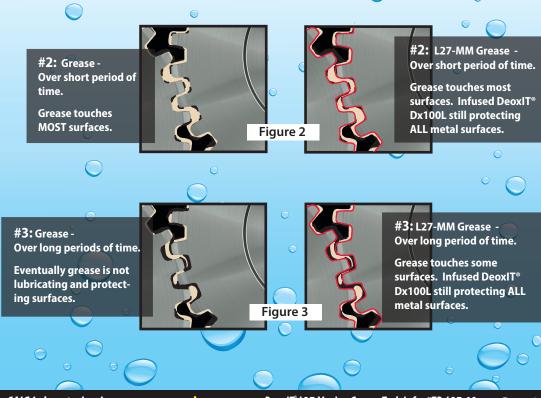
The infusion of DeoxIT[®] D-Series Dx100L into the formulation provides an additional film on the metal surface to dissolve corrosion (without harming sensitive materials), improve conductivity and provide a moveable/flexible protective barrier. This is important when and if the grease is disturbed and separates from the metal surface. When the grease is first applied, the infused DeoxIT[®] Dx100L transfers to the metal and coats the entire surface; sealing and protecting the metal even if the grease is separated from the surface (vibration or mechanical movement). *No other grease does this!*

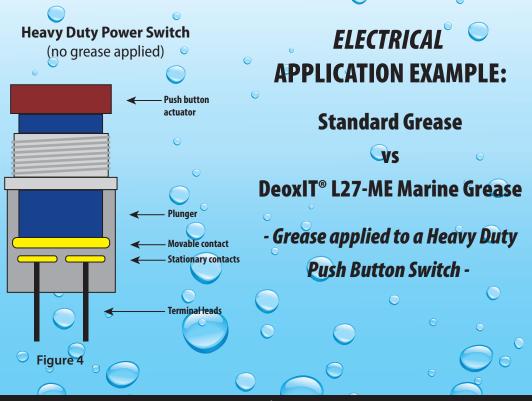
• Things to Remember:

- Greases are indispensable in providing good lubrication, wear resistance and protection from the environment.
- Greases can loose their effectiveness over time and separate from the surfaces,
 - Not DeoxIT[®] L27 Marine Grease
- Infusion of the DeoxIT® D-Series (Dx100L) allows the fluid to mechanically bond to the metal surfaces. It coats and re-coats, even when surfaces are disturbed. It is a non-conductive fluid that enhances conductivity.
- DeoxIT[®] Grease L27 not only lubricates & protects, it dissolves (without harming metal and plastics) oxidation & corrosion.
- Mechanical applications; DeoxIT® D-Series (Dx100L) fills in the microscopic gaps on the metal surfaces providing additional lubrication and protection.
- Electrical applications; DeoxIT® D-Series (Dx100L) fills in the microscopic gaps on metal surfaces on electrical contacts, providing increase contact surface area (conductivity), reliability and lower temperatures.

Refer to DeoxIT® D-Series D100L technical bulletins for additional information, http://caig.com/DD-Series.html





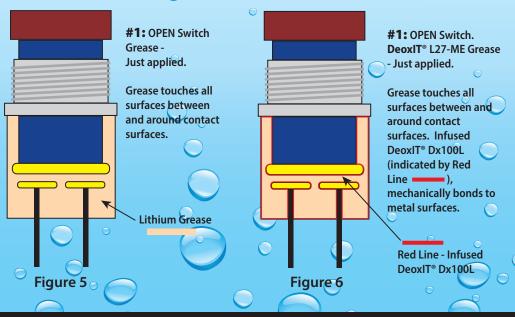


Standard grease applied

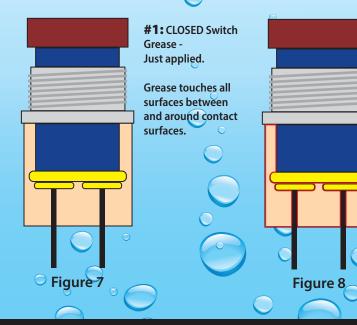
Heavy Duty Power Switch (lithium grease applied)

DeoxIT® Grease L27-ME

Heavy Duty Power Switch (DeoxIT® L27-ME lithium grease infused with DeoxIT® D-Series Dx100L applied)



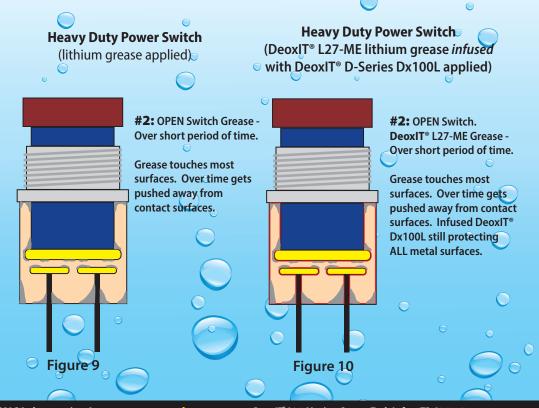




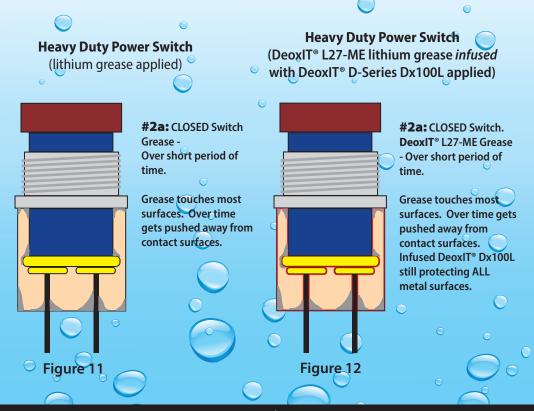
Heavy Duty Power Switch (DeoxIT® L27-ME lithium grease infused with DeoxIT® D-Series Dx100L applied)

> **#1:** CLOSED Switch. **DeoxIT**[®] L27-ME Grease -Just applied.

Grease touches all surfaces between and around contact surfaces. Notice, infused DeoxIT[®] Dx100L (indicated by Red Line _____), mechanically bonds to metal surfaces, except where stationary and moving contacts connect. DeoxIT® D-Series Dx100L, moves away from metal-to-metal contact, then once switch OPENS, DeoxIT[®] Dx100L re-coats surfaces. DeoxIT® Dx100L also fills in any gaps between the irregular microscopic surfaces.

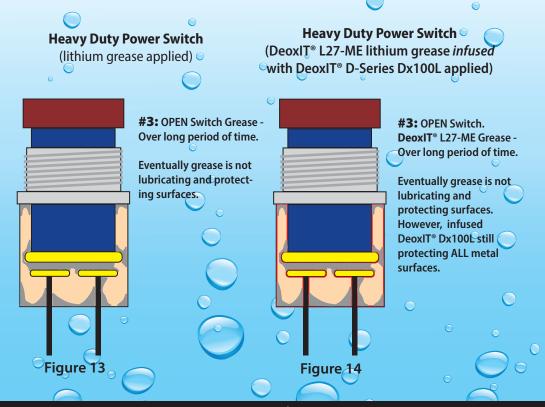


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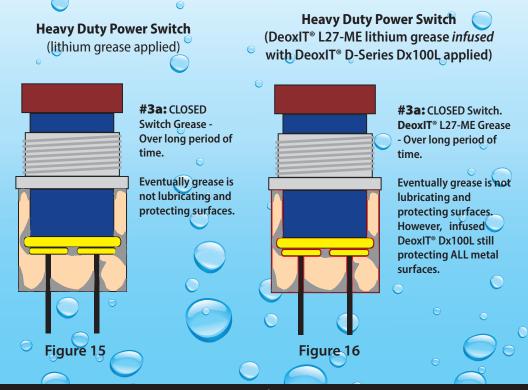


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Mechanical Applications:

Bearings (all types),	Rack & p
Doors (closures),	Screw de
Drives (chain/sprockets),	Slide bu
Hatch closures,	Sliding
O-rings and seals,	Tracks/g
Linear motion systems,	Threade
Plugs (threaded holes),	Worm g

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ack & pinion assemblies, crew devices (jacks, rails), lide bushings, liding parts, racks/guides/rails, hreaded closures, Vorm gears, etc.

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• Electrical Applications:

Antenna connections, Battery terminals, Buss bars, conductors, Commutators, Conductor rails, Contactors, Drying & processing equipment, Disconnects, High amperage/high voltage applications, Industrial equipment (lifts, cranes, robotics, etc.), Power tools, relays & switches (heavy duty, knife, step, rotary), etc.

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COMPARISON CHART

Product	Heat Resistance	Wear Resistance	Water Resistance	Oxidation Resistance*	Oxidation Dissolving	
\circ			° ()		~	
DeoxIT [®] L27	Excellent	Very Good	Excellent	Excellent	Very Good	
Lithium	Good	Good	Good	Fair	Poor	
Lithium Complex	Very Good	Good	Excellent	Fair	Poor	
Complex 💛	Very Good	Good	Excellent	Fair	Poor	
Bentone Clay	Very Good	Very Good	Good	Good	Poor	
Polyurea	Very Good	Good	Excellent	Good	Poor	
Polyrex™	Excellent	Very Good	Good	Good	Poor	•
			\mathbf{U}	\bigcirc		
*Oxidation of lubricants can produce sludge, varnish, gum and acid.						\bigcirc
Polyrex [™] is	a trademark	of Exxon/Mob	il Corporation			-0

DeoxIT[®] L27 Marine Grease - Available with or without particles:

Grease with & without particles.

DeoxIT[®] Type L27-MM, Mechanical, *No particles* DeoxIT[®] Type L27-MM-Q, *Mechanical, Quartz particles* DeoxIT[®] Type L27-ME, Electrical, *No particles* DeoxIT[®] Type L27-ME-Q, *Electrical, Quartz particles*

GREASE PARTICLE DESCRIPTIONS:

No particles: Maximum lubrication for relatively clean surfaces.

Quartz particles: Quartz particles assist in breaking up oxidation and corrosion. Quartz is nonconductive.

CUSTOM Formulations Available:

DeoxIT[®] L27E-MM and L27E-ME Heavy Duty, Extreme Environment grease formula.

Copper particles: Copper particles assist in breaking up oxidation and corrosion. Copper is conductive.

Aluminum particles: Use when aluminum metals are involved. Aluminum is conductive.

Graphite particles: Graphite particles assist in heat stability and lubrication.

Teflon: For superior lubrication and protection of parts.

Custom formulation: Contact CAIG Team Member at info@caig.com

DeoxIT[®] Grease L27 Sizes:

- **Squeeze Tubes (sample/kit size)**, **2gra**ms
- **Small Jar**, 28 grams
- 🔏 Cartridge with Nozzle Tip, 226 grams
- Grease Gun Cartridge, 396 grams
- 🖌 🖌 Jar, 453 grams
- 🖌 🖌 Pail, 15.9 Kg

MANUFACTURER DISCLAIMER:

To the best of our knowledge, the information contained herein is accurate. However, neither CAIG Laboratories, Inc., or any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist. All service performed on internal parts and equipment should be provided by qualified technicians.

DeoxIT[®] L27 Marine Grease - SPECS

SPEC*	DeoxIT [®] L27		Standard De	eoxIT® L27
SPEC	Marine Grease	Comparison SPEC*		
	Marine Grease		Lithium Complex M	arine Grease
SDS Number(s)	SDS€E-L27-M	Extreme pressure	4**	4**
\bigcirc	SDS-E-L27-MQ	Water resistant	4	5
Θ	SDS-E-L27-E	Clean/deoxidize surfaces	1	5
	SDS-E-L27-EQ	Improves conductivity	1	5
DeoxIT [®] Dx100L	>2%	Surfaces under vibration	1	5
Operating Temp, °C(°F)		(1) LOW amps/voltage conn	octions 1	5
Minimum (conservative)	-34(-29)			4
Maximum (conservative)	220(428)	(1) HIGH amps/voltage conr		~ ·
Penetration, at 25°C (worked, 6	0 strokes) 290	Reduces Fretting Corrosio		4
Dropping Point, ^o C(^o F)	190(374)	Effective in severe environ	iments 3	4
Timken OK Load, lb 🔵	4 0	Plastics compatibility	4	4 🔾
Thickener, % (Type)	12 (Lithium Complex)	⁽¹⁾ Electrical conductivity		
ISO Viscosity Grade, Base Oil E	quiv. 220	(27°C) (10 ¹² ohm ⁻¹ cm ⁻¹)	0	0.15
Viscosity, Kinematic	\smile	⁽¹⁾ Dielectric Constant (Er)		3.5
─ cSt at 40°C	175	⁽¹⁾ Dielectric Strength (Ed)(kV/cm)	45.9
cSt at 100°C	16	⁽¹⁾ Specific Insulation Resis		
Viscosity, Saybolt		(10 ¹² ohm-cm)(+0.30/-0		6.0
SUS at 100°C	915		$\overline{\circ}$	0
SUS at 210°C 💦 🖂	85	* Conservative values. O	n critical applicati	onc
Viscosity Index 🤍	90 [°]			olis,
Oil Separation, wt %	3.5	independent testing re	commended.	~ 0
Flash Point, °C(°F)	250(482)	** (1-Poor, 5-Excellent)		$\supset 0$
0.000		⁽¹⁾ DeoxIT [®] L27-E Products		
			6	5

• What the Industry Experts Say!

PROFESSIONAL EXPECTATIONS EXCEEDED WITH DeoxIT®

I just built a recording rack for Paul McCartney and it had a problem at the time of the first show. I had tested the system before it left the shop, and the two Tascam MX-2424's, a Berhinger DDX-3612, a Rosendahl Time word clock generator, and 72 Glyph Hard Drives all worked at the shop. Two hours before the show, I found myself trying to get the system up and going.

One of the Tascam units had stopped working, and I could not understand why! I was in panic. It was a sold out show, and people started getting seated. The unit had a flash memory card in it, and I figured that since it was locking up on start, there had to be a problem with the card. It was not loading the data, so I used some DeoxIT® D-Series contact cleaner on the contacts, wiped it off, then use the DeoxIT® Gold solution. I then tried it again, and IT WORKED! The memory was reloaded, and the show was recorded as planned.

I am an avid DeoxIT® customer and always will be. I use it along with the DeoxIT® Gold and DeoxIT® Fader (FaderLube) on controls and switches on outboard gear, as well as audio consoles worth well over \$250,000. I will always use DeoxIT®, and now our whole company uses it as well. We use it for tours like the Rolling Stones, Paul McCartney, Incubus, and AC/DC, to name a few. We also use it on the equipment for theater shows like Riverdance and Barney.

DeoxIT[®] can be trusted around the world, and let me tell you it is! Thanks CAIG for such a great product. You saved us more than once!

D. Ranshaw, Service Manager, db Sound

SUPPLIER CLEANING ISSUE SOLVED with DeoxIT®!

We identified that we were having significant supplier cleaning issues on many of our component interconnects that were leading to higher rates of failures for our customers in some cases. An investigation was launched to improve the quality of our interconnects. We performed environment testing, system testing, and field testing on our most problematic systems. We determined that applying the DeoxIT® D-Series dramatically improved the performance and reliability of our interconnects on our servers. The two year investigation included a full blown qualification of the DeoxIT® D-Series product on our assemblies, memory dimms, and memory connectors and the results passed all of our testing with flying colors!

The CAIG Team has and continues to be a tremendous asset, working with our team to develop tools and a process of implementing the cleaning process to our manufacturing facilities worldwide. It has been very clear that CAIG has our customers and our companies best interest in mind in creating a method of improving the reliability of our products in a very cost effective manner. Personally, their customer service and technical expertise is second to none – it continues to be a pleasure working with them!

Chuck C. - Master Quality Engineer, HPE Servers

"CONTACT CLEANERS KEEP TRYING"

Recently, a rep from another chemical company sent me a sample can of their new contact cleaner, promising to "blow away DeoxIT® D5, at a cheaper price". I moistened a swab with THEIR cleaner, and took it to one-half of the dirty edge connector pads on a nasty looking PCB. It barely touched it. I repeated the process with DeoxIT® D5. It removed the oxidation immediately and the device has worked perfectly ever since.

John R. Frondelli, Tech Services Director, dBm Services

"FOR SERVICING OF ELECTRONICS THESE PRODUCTS ARE INDISPENSABLE."

I have used CAIG products over the last 30 some years. DeoxIT® D5 Contact Cleaner, DeoxIT® F5 Fader, and DeoxIT® Gold Pro Gx3 are all indispensable when servicing older units with dirty or intermittent mechanical switches and controls. DeoxIT® Gold Pro Gx3 is the only solution for cleaning dirty tube pins that I have found and it will not turn to gunk under the high temperature of the vacuum tube pins. For servicing of electronics these products are indispensable.

... Thanks, CAIG Labs!

Ron Cornelius, McIntosh

• Our Customers are Our Best Advocates!

Bose Corporation

DeoxIT® D-Series is an excellent product for removing oxidation and contamination from dirty switches & controls and reducing intermittent contact problems. We have been using CAIG products with great success for over 40 years.

Diebold, Incorporated

We have been using CAIG products since 1980 on our automated teller machines to help ensure reliable performance.

General Electric

We were having trouble with edge connectors in our manufacturing environment until we tried DeoxIT[®] Gold Wipes great product. *Honeywell Inc.*

CAIG's DeoxIT[®] D-Series is great stuff. We use it on feedback slidewires, edge connectors, & relay contacts in industrial process controls.

Rane Corporation

People call me daily asking for recommendations for cleaners and lubricants. Most everyone has tried something less than DeoxIT[®], and after using what we authorize, the results are always positive, sometimes bordering on <u>miraculous</u>.

Tektronix

We use DeoxIT[®] Gold Wipes to protect virgin edge connectors, DeoxIT[®] D-Series contact cleaner to eliminate intermittent problems on primitive tin-to-tin connectors (which tend to vibrate) and will be using DeoxIT[®] Gold in the field for gold connectors excellent products.

Xerox Corporation

Corrosion problems on very sensitive connectors have been an annoying problem for us. We have tried many products without success until we tried CAIG's DeoxIT® D-Series and DeoxIT® Gold. They are the only products that have worked perfectly. We highly recommend them.

American Airlines	General Dynamics	Міс
Amtrak	General Atomics	NA.
Black & Decker	Google	Noi
BMW	Harley Davidson	Реа
Boeing	Harman Kardon	Phi
Bombardier	Hewlett-Packard	Pra
Bose	Honda 💛	Rai
Caterpillar	Honeywell	Ray
Crown Lift Trucks	IDI Interconnect	Rol
Daktronics	Ingersoll Rand	Sch
Defense General	Intel	Swi
Delta Airlines	Inventec Corp.	Tek
Diebold	Jet Propulsion Labs	Тус
Emerson Electric	John Deere	Uni
FAA	Johnson Controls	UP:
Federal Express	L-3 Communications	Xer
Ford	Logitech 🔍 👘	Zer
Foxconn	McIntosh Labs	And

crosoft SA orthrop Grumman avey Electronics ilips Medical att & Whitnev ne Corporation vtheon land hindler Elevator vitchcraft ktronics co Electronics ion Pacific Railroad rox ro Motorcycles d thousands more

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