

# DeoxIT® L27 Marine Grease

## PRODUCT *Info*

### WHY Another Marine Grease?

Marine greases currently do a good job lubricating and protecting mechanical devices and equipment. However, they do not address a common issue that effects all metals, existing oxidation/corrosion on the surfaces.

CAIG's DeoxIT® L27 Greases do a great job lubrication and protecting metal surfaces, they also contain special additives which remove and displace most surface oxidation and corrosion on metals.

Manufactured in semi-solid form for use as a combination cleaning, deoxidizing, protecting and lubricating preparation. Greases protect against oxidation (galvanic corrosion) and are free of mineral acids, sulphurs, alkalis and other noxious components aggressive to metals.

**DeoxIT® L27-MM Greases** improve performance of mechanical components that require precise cleaning, lubrication & protection. Operating temperatures: L27-MM: -40°C to 260°C.

**DeoxIT® L27-ME Greases** improve performance of electrical contacts and connections subject to severe moisture, corrosion and contamination. Operating temperatures: L27-ME: -40°C to 260°C.

The infusion of DeoxIT® Dx100L into the formulation provides an additional film on the metal surface to remove/displace corrosion, and provides 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!

*For severe oxidation and corrosion, quartz particles are available in the greases.*

#### USES - Mechanical:

Bearings (all types), doors (closures), drives (chain/sprockets), hatch closures, O-rings and seals, linear motion systems, plugs (threaded holes), rack & pinion assemblies, screw devices (jacks, rails), slide bushings, sliding parts, tracks/guides/rails, threaded closures, worm gears, etc.

#### USES - Electrical:

Antenna connections, battery terminals, Buss bars, commutators, conductor rails, conductors, contactors, disconnects, drying & processing equipment, high amperage/high voltage applications, industrial electrical equipment (lifts, cranes, robotics, etc.), power tools, relays & switches (heavy duty, knife, step, rotary), etc.



**DeoxIT® L27-MM, MECHANICAL Marine Grease**  
Available With or Without Quartz Particles



**DeoxIT® L27-ME, ELECTRICAL Marine Grease**  
Available With or Without Quartz Particles



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



Audio/Video



Computers



Automotive



Communications



Marine



Electrical



Energy



Photography



Security



Medical



Avionics

## GREASE DESCRIPTIONS:

**No particles:** Maximum lubrication for relatively clean surfaces.

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

**Custom Formulation & Sizes:** Aluminum, Copper, Graphite and Teflon particles available. Contact CAIG Team Member at [info@caig.com](mailto:info@caig.com)

### DeoxIT® L27-MM Mechanical Grease

Part No. L27-MM-8T, 8 oz (226 g), cartridge with white tip, no particles.

Part No. L27-MM-Q8T, 8 oz (226 g), cartridge with white tip, quartz particles.

Part No. L27-MM-14, 14 oz (396 g), cartridge for grease gun, no particles.

Part No. L27-MM-Q14, 14 oz (396 g), cartridge for grease gun,, quartz particles.

Part No. L27-MM-18, 18 oz (510 g), tub/jar, no particles.

Part No. L27-MM-Q18, 18 oz (510 g), tub/jar, quartz particles.

### DeoxIT® L27-ME Electrical Grease

Part No. L27-ME-8T, 8 oz (226 g), cartridge with white tip, no particles.

Part No. L27-ME-Q8T, 8 oz (226 g), cartridge with white tip, quartz particles.

Part No. L27-ME-14, 14 oz (396 g), cartridge for grease gun, no particles.

Part No. L27-ME-Q14, 14 oz (396 g), cartridge for grease gun,, quartz particles.

Part No. L27-ME-18, 18 oz (510 g), tub/jar, no particles.

Part No. L27-ME-Q18, 18 oz (510 g), tub/jar, quartz particles.

**PAILS Available:** 3.6 Kg and 15.9 Kg

**VOC and RoHS Compliant**

**Product Information Sheet: C-L27-M, 9/2018**

## COMPARISON CHART

Product	Heat Resistance	Wear Resistance	Water Resistance	Oxidation Resistance*	Oxidation Removing
DeoxIT® L27-MM	Very Good	Very Good	Excellent	Very Good	Good
DeoxIT® L27-MM-Q	Very Good	Very Good	Excellent	Very Good	Very Good
DeoxIT® L27-ME	Very Good	Very Good	Excellent	Very Good	Good
DeoxIT® L27-ME-Q	Very Good	Very Good	Excellent	Very Good	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

\* Oxidation of lubricants can produce sludge, varnish, gum and acid.

™ Polyrex is a trademark Of Exxon/Mobil Corporation

## TYPICAL PROPERTIES (Base material):

TYPE:	L27-MM	L27-ME
Flow Point, min.	-30°C	-28°C
Viscosity @ 100°F, SUS	782	768
ASTM Dropping Point	282°C	265°C
Specific Gravity @ 20°C	1.87	1.85
Flash Point	300°C	300°C
<sup>1</sup> Lowest/Best Operating Temperature (general)	-30°C	-30°C
<sup>1</sup> Highest Operating Temperature (continuous duty)	200°C	200°C
Acid & Neutralization No. (mg KOH/g)	1.18	1.16
Saponification No. (mg KOH/g)	2.83	2.80
Electrical Conductivity (27°C)(10 <sup>-12</sup> ohm <sup>-1</sup> cm <sup>-1</sup> )	NA	0.17
<sup>2</sup> Dielectric Constant E <sub>r</sub>	NA	2.70
Tan δ (10 <sup>-4</sup> )		
<sup>2</sup> Dielectric Strength E <sub>d</sub> (kV/cm)	NA	54.9
<sup>2</sup> Insulation Resistance D (10 <sup>-12</sup> ohm-cm)	NA	5.9
		+ .50/- .03
Oil Type	Synthetic Blend	Synthetic Blend
Soap Type	Lithium-12 Hydroxy	Lithium-12 Hydroxy
Soap %	9.52	9.52
ASTM - Penetration	295	280
NLGI	2	2
Deoxidizer	Yes	Yes
Oxidation Inhibitor	Yes	Yes
Corrosion Inhibitor	Yes	Yes
Texture	Short Fiber	Short Fiber
Color	Amber	Amber/Red

<sup>1</sup> Temperatures are conservative values for reference only.

<sup>2</sup> **NOTE:** All values are relative to an ambient temperature of 26 to 28°C (approx. 80°F). Dielectric strength value is a statistical average taken from 10 measurements. Voltage measurement taken with 0.5% accuracy. Tests conducted on base material only. Greases with particles may have different measurements.

All information and data contained in this literature is believed to be accurate, however, it should not be taken as definitive for all users. Users should thoroughly test advertised products in their application, and independently determine satisfactory results before use in large scale production or manufacturing processes. All information on the comparison chart on the front side of this literature we believe to be reliable and was, in part, provided by the manufacturer. Independent testing should be conducted to determine individual needs for each application.



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