DeoxIT® L260D Grease
Mechanical & Electrical Applications

1. Product Description: CAIG offers two types of standard DeoxIT® Greases (Lithium-based and Mineral-based)

DeoxIT® Greases are 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® Greases improve performance of electrical contacts and mechanical components that require precise lubrication.

DeoxIT® Grease Type L260D - Lithium-based preparation. Good lubrication, excellent wear resistance, excellent pressure resistance, excellent oxidation (galvanic corrosion) protection, high dripping-point characteristics. Operating temperatures: -40°C to 260°C.

NEW! DeoxIT® Grease Type L260D - Infused with DeoxIT® D-Series D100L = Soft, thixotropic grease for lubrication and protection of surfaces. Maximum lubrication for relatively clean surfaces. The infusion of DeoxIT® D-Series D100L into the formulation provides an additional film on the metal surface to dissolve corrosion, improve conductivity and provide a moveable/flexible protective film on the surface.


2. Formulation: DeoxIT® Greases are offered with or without particles.

A. NO particles (L260DNp) = Soft, thixotropic grease for lubrication and protection of surfaces. Maximum lubrication for relatively clean surfaces.

B. COPPER particles (L260DCP) = Use when you require particles (conductive) to assist in oxide and corrosion breakup and good lubrication. Copper is conductive. Use in areas that two contacts will not touch and possibly short. Example: disconnect switches or large connectors and relays.

C. ALUMINUM particles (L260DAp) = Use when aluminum metals are involved to assist break up corrosion. Use in areas that two contacts will not touch and possibly short. Example: aluminum rails, bolts, connectors.

D. GRAPHITE particles (L260DGp) = Graphite provides excellent lubricating and heat transfer characteristics. Use where lubrication is vital and heat absorption and dissipation is important.

E. QUARTZ particles (L260DQp) = Use when you need particles (non conductive) to assist in oxide break up and you require good lubrication and abrasion. Quartz particles assist in breaking up oxidation and corrosion. Quartz is nonconductive.

Home of the DeoxIT® family of Environmentally-Safer Contact Cleaners and Connector Enhancing Treatments Made in USA
F. **GRAPHITE/QUARTZ particles** (L260DGQp) = Use when heat transfer, lubrication and assistance is needed in breaking up oxides and corrosion. Finer particles than the copper.

G. **TEFLON particles** (L260DTp) = Use when lubrication is essential. Teflon particles are nonconductive.

H. **CUSTOM FORMULATIONS** = Contact a CAIG Associate; http://store.caig.com/s.nl/it.l/id.7/.f

### 3. Grease Comparison Chart:

<table>
<thead>
<tr>
<th>Product</th>
<th>Heat Resistance</th>
<th>Wear Resistance</th>
<th>Water Resistance</th>
<th>Oxidation Resistance*</th>
<th>Oxidation Dissolving</th>
</tr>
</thead>
<tbody>
<tr>
<td>DeoxIT® M260</td>
<td>Excellent</td>
<td>Very Good</td>
<td>Good</td>
<td>Very Good</td>
<td>Good</td>
</tr>
<tr>
<td>DeoxIT® L260</td>
<td>Very Good</td>
<td>Very Good</td>
<td>Very Good</td>
<td>Very Good</td>
<td>Good</td>
</tr>
<tr>
<td>DeoxIT® L260D</td>
<td>Excellent</td>
<td>Very Good</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Very Good</td>
</tr>
<tr>
<td>Lithium Complex</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Fair</td>
<td>Poor</td>
</tr>
<tr>
<td>Bentone Clay</td>
<td>Very Good</td>
<td>Very Good</td>
<td>Good</td>
<td>Good</td>
<td>Poor</td>
</tr>
<tr>
<td>Polyurea</td>
<td>Very Good</td>
<td>Good</td>
<td>Excellent</td>
<td>Good</td>
<td>Poor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyrex<strong>TM</strong></td>
<td>Excellent</td>
<td>Very Good</td>
<td>Good</td>
<td>Good</td>
<td>Poor</td>
</tr>
</tbody>
</table>

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

**Polyrex is a trademark Of Exxon/Mobil Corporation**

### 4. Features/Benefits:

Good lubrication, good abrasion, excellent wear resistance, excellent pressure resistance, excellent oxidation (galvanic corrosion) protection, high dripping-point characteristics.  Superior moisture resistance. Resist washout and excessive dilution by water assuring all-weather protection. Excellent mechanical stability. Safe on plastics.

### 5. 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.

**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.
DeoxIT® Greases are manufactured in semi-solid form for use as a combination cleaning, deoxidizing, mechanical and electrical lubricant.

1. Product Description:
   - **Mechanical & Electrical Applications**
     - **DeoxIT® L260D Grease**

2. Formulation:
   - [Link to Formulation](https://goo.gl/NJwKHf)
   - [Link to Formulation](https://goo.gl/aGj9UA)

3. Typical Applications:
   - 2.0% DeoxIT® D-Series D100L
   - 3.0% Graphite
   - 7.0% Quartz particles, -200 mesh

4. Usages:
   - 5.0% Quartz particles, -200 mesh
   - 2.0% DeoxIT® D-Series D100L

5. Uses:
   - Good lubrication, good abrasion, excellent wear resistance, excellent pressure resistance, excellent oxidation protection, and are free of harmful solvents.

6. Types/Formulations/Part Numbers:
   - **6a. Type: L260Dnp (no particles)**
     - **Formulation:** 98.0% DeoxIT® L260Np Lithium Grease
     - 2.0% DeoxIT® D-Series D100L
     - **Part Nos.:**
       - L260S-N10D: spray, 10 oz (284 g)
       - L260-DN2G: 100% squeeze tube, 2 g
       - L260-DN1: 100% jar, 28 g
       - L260-DN8TP: 100% grease tube, 226 g
       - L260-DN8: 100% jar, 226 g
       - L260-DN360: 100% pail, 3.6 Kg
   - **6b. Type: L260Dap (aluminum particles)**
     - **Formulation:** 95.0% DeoxIT® L260Np Lithium Grease
     - 3.0% Aluminum particles, 600 grit (9 mm)
     - 2.0% DeoxIT® D-Series D100L
     - **Part Nos.:**
       - L260-DA2G: 100% squeeze tube, 2 g
       - L260-DA1: 100% jar, 28 g
       - L260-DA8TP: 100% grease tube, 226 g
       - L260-DA8: 100% jar, 226 g
       - L260-DA360: 100% pail, 3.6 Kg
   - **6c. Type: L260DCp (copper particles)**
     - **Formulation:** 91.0% DeoxIT® L260Np Lithium Grease
     - 7.0% Copper particles, -150 mesh (-105 mm)
     - 2.0% DeoxIT® D-Series D100L
     - **Part Nos.:**
       - L260-DC2G: 100% squeeze tube, 2 g
       - L260-DC1: 100% jar, 28 g
       - L260-DC8TP: 100% grease tube, 226 g
       - L260-DC8: 100% jar, 226 g
       - L260-DC360: 100% pail, 3.6 Kg
   - **6d. Type: L260Dgp (graphite particles)**
     - **Formulation:** 95.0% DeoxIT® L260Np Lithium Grease
     - 3.0% Graphite particles, -150 mesh (-105 mm)
     - 2.0% DeoxIT® D-Series D100L
     - **Part Nos.:**
       - L260-DG2G: 100% squeeze tube, 2 g
       - L260-DG1: 100% jar, 28 g
       - L260-DG8TP: 100% grease tube, 226 g

7. Directions for Use:
   - 1. Turn off, unplug the device.
   - 2. Clean/remove grease, dirt and other contaminations from the surfaces. Use a contact cleaner or other surface cleaner.
   - 3. Protect metallic surfaces from moisture.
   - 4. Do not touch and possibly short. Example: disconnect switches or large connectors and relays.
   - 5. For surface that require particles (i.e. disconnect knife switches, etc.), apply a small amount to the metal parts, tracks/guides/rails, threaded closures, worm gears, etc.

8. Technical Information/Specifications:
   - **WHY DeoxIT® is Different:** [Link](http://caig.com/product-literature/#toggle-id-12)
   - **CAIG Essential Guide:** [Link](http://caig.com/product-literature/#toggle-id-1)
   - **VOC Compliant:** YES
   - **RoHS Compliant:** YES
   - **Hazardous:** Yes  ORMD (No ground shipping restrictions)
   - **Hazardous:** No  No Shipping Restrictions
   - **MSDS Link, L260D** [Link](http://caig.com/material-safety-data-sheets/)

9. For additional information or unique applications, contact a CAIG Associate; **7. Turn on or energize the part/system.**

10. Shipping and Additional Information:
    - **NEW!**
      - L260S-N10D: spray, 10 oz (284 g)
      - L260-DN2G: 100% squeeze tube, 2 g
      - L260-DN1: 100% jar, 28 g
      - L260-DN8TP: 100% grease tube, 226 g
      - L260-DN8: 100% jar, 226 g
      - L260-DN360: 100% pail, 3.6 Kg

**NEW**
- Squeeze Tubes (2 g)
- Retail Tube (28 g)
- NEW Tube (226 g)
DeoxIT® Greases are manufactured in semi-solid form for use as a combination cleaning, deoxidizing, lubricating, and protective barrier. They are designed to minimize the effects of atmospheric conditions on metal surfaces, providing extended performance in demanding environments.

### Formulation:
- **DeoxIT® D-Series D100L**: A deoxidizing and cleaning agent.
- **Part Nos.**:
  - L260-DA8TP (226 g)
  - L260-DAp (3.6 Kg)

### Characteristics:
- **Operating temperatures**: -40°C to 260°C.
- **Material compatibility**: Resistant to mineral acids, sulphurs, alkalis, and other noxious components aggressive to metals.

### Uses:
- Connectors
- Contactors
- Conductors
- Contactors
- Commutators
- Conductor rails
- Conductors
- Contactors
- Avionics
- Automotive Electrical
- Audio/Video
- Computers
- Marine
- Energy
- Security
- Medical
- Avionics

### 6e. Type: L260DQp (quartz particles)
- **Formulation**:
  - 91.0% DeoxIT® L260Np Lithium Grease
  - 2.0% DeoxIT® D-Series D100L
  - 7.0% Quartz particles, -200 mesh

### Part Nos.:
- L260-DGQ1 100% jar 28 g
- L260-DGQ8 100% jar 226 g
- L260-DGQ8TP 100% grease tube 226 g
- L260-DGQ360 100% pail 3.6 Kg

### 6f. Type: L260DGQp (graphite/quartz particles)
- **Formulation**:
  - 91.0% DeoxIT® L260Np Lithium Grease
  - 2.0% Graphite
  - 5.0% Quartz particles, -200 mesh
  - 2.0% DeoxIT® D-Series D100L

### Part Nos.:
- L260-DGQ1 100% jar 28 g
- L260-DGQ8 100% jar 226 g
- L260-DGQ8TP 100% grease tube 226 g
- L260-DGQ35 100% pail 3.6 Kg

### 6h. Custom formulations available, contact CAIG associate.

### Directions for Use:
1. Turn off, unplug the device.
2. Clean/remove grease, dirt, and other contaminations from the surfaces. Use a contact cleaner or degreaser (CAIG Labs., Part Nos. DCC-V510 or DDW-V610).
3. Select the DeoxIT® Grease (with or without particles) that is required for your application.
4. In extreme environmental conditions (salt, humidity, acidic, pollution), pre-treating with DeoxIT® D-Series (unless using DeoxIT® L260DNp Grease) may be recommended.
5. As an external environmental barrier (i.e. antenna connections, audio/video connections, etc.), apply liberally onto the entire surface.
6. For surface that require particles (i.e. disconnect knife switches, etc.), apply a small amount to the metal surfaces, then operate the switch to assist in break up of oxidation and corrosion. A second application may be required.
7. Turn on or energize the part/system.
8. For additional information or unique applications, contact a CAIG Associate; http://store.caig.com/s.nl/it.l/id.7/.f
8. Materials Compatibility (Plastics, Rubber, Elastomeric and Metals):

(Rating: Not compatible, Poor, Fair, Good, Excellent).
(Compatibility testing is always recommended)

<table>
<thead>
<tr>
<th>Material Name</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS</td>
<td>Excellent</td>
</tr>
<tr>
<td>Nylon</td>
<td>Excellent</td>
</tr>
<tr>
<td>Lexan</td>
<td>Excellent</td>
</tr>
<tr>
<td>HDPE</td>
<td>Good</td>
</tr>
<tr>
<td>LDPE</td>
<td>Good</td>
</tr>
<tr>
<td>C.E. Phenolic</td>
<td>Excellent</td>
</tr>
<tr>
<td>Epoxy</td>
<td>Excellent</td>
</tr>
<tr>
<td>Polycarbonate</td>
<td>Excellent</td>
</tr>
<tr>
<td>PMMA</td>
<td>Fair</td>
</tr>
<tr>
<td>POM</td>
<td>Excellent</td>
</tr>
<tr>
<td>PP</td>
<td>Excellent</td>
</tr>
<tr>
<td>PS</td>
<td>Fair</td>
</tr>
<tr>
<td>PTFE</td>
<td>Excellent</td>
</tr>
<tr>
<td>PVC</td>
<td>Excellent</td>
</tr>
<tr>
<td>TPE/Rubber/Varnish</td>
<td>Poor</td>
</tr>
</tbody>
</table>

IMPORTANT:
Rating: 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.

9. Technical Information/Specifications:

<table>
<thead>
<tr>
<th>TYPE:</th>
<th>M260</th>
<th>L260</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Point, min.</td>
<td>-30°C</td>
<td>-30°C</td>
</tr>
<tr>
<td>Viscosity @ 100°F, SUS</td>
<td>763</td>
<td>785</td>
</tr>
<tr>
<td>ASTM Dropping Point</td>
<td>260°C</td>
<td>285°C</td>
</tr>
<tr>
<td>Specific Gravity @ 20°C</td>
<td>1.85</td>
<td>1.87</td>
</tr>
<tr>
<td>Flash Point</td>
<td>300°C</td>
<td>300°C</td>
</tr>
<tr>
<td>¹ Lowest/Best Operating Temp. (general)</td>
<td>-30°C</td>
<td>-30°C</td>
</tr>
<tr>
<td>¹ Highest Operating Temp. (continuous duty)</td>
<td>200°C</td>
<td>200°C</td>
</tr>
<tr>
<td>Acid &amp; Neutralization No. (mg KOH/g)</td>
<td>1.15</td>
<td>1.17</td>
</tr>
<tr>
<td>Saponification No. (mg KOH/g)</td>
<td>2.79</td>
<td>2.81</td>
</tr>
<tr>
<td>Electrical Conductivity (27°C) (10⁻¹² ohm⁻¹ cm⁻¹)</td>
<td>0.17</td>
<td>0.17</td>
</tr>
<tr>
<td>² Dielectric Constant Eₜ</td>
<td>2.751</td>
<td>3.236</td>
</tr>
<tr>
<td>² Dielectric Strength Eₜ (kV/cm)</td>
<td>54.6</td>
<td>45.9</td>
</tr>
<tr>
<td>² Specific Insulation Resistance D (10¹² ohm-cm)</td>
<td>5.7</td>
<td>5.9</td>
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</table>

<table>
<thead>
<tr>
<th>TYPE:</th>
<th>M260</th>
<th>L260</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil Type</td>
<td>Mineral</td>
<td>Synthetic Blend</td>
</tr>
<tr>
<td>Soap Type</td>
<td>None</td>
<td>Lithium-12 Hydroxy</td>
</tr>
<tr>
<td>Soap %</td>
<td>9.52</td>
<td></td>
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<tr>
<td>ASTM – Penetration</td>
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<td>295</td>
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<tr>
<td>NLGI</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Deoxidizer</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oxidation Inhibitor</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Corrosion Inhibitor</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Texture</td>
<td>Buttery</td>
<td>Short Fiber</td>
</tr>
<tr>
<td>Color</td>
<td>Amber</td>
<td>Amber</td>
</tr>
</tbody>
</table>

¹ Temperatures are conservative values for reference only.
² 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.
10. Shipping and Additional Information:

DeoxIT® L260 and M260 Grease - Non aerosol:
Hazardous: No
VOC (%): Less than 1%

Hazardous: Yes
VOC (%): 20.4%

11. Other Information:

RoHS Compliant: YES
VOC Compliant: YES
DeoxIT® Grease Sheet: http://caig.com/product-literature/#toggle-id-14
WHY DeoxIT® is Different: http://caig.com/product-literature/#toggle-id-12

12. 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.

13. Contact Information:

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