DeoxIT® L260 & M260 Grease
Mechanical & Electrical Applications

1. Product Description: CAIG offers two types of 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 L260 - 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.

DeoxIT® Grease Type M260 - Mineral-based preparation. Excellent lubrication, good wear resistance, excellent oxidation (galvanic corrosion) protection and good dripping-point characteristics. Operating temperatures: -40°C to 260°C

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

A. NO particles (L260Np and M260Np) = Soft, thixotropic grease for lubrication and protection of surfaces. Maximum lubrication for relatively clean surfaces.

NEW! B. NO particles, Infused with DeoxIT® D-Series D100L (L260DNp and M260DNp) = 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.

C. COPPER particles (L260Cp and M260Cp) = 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.

D. ALUMINUM particles (L260Ap and M260Ap) = 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.

E. GRAPHITE particles (L260Gp and M260Gp) = Graphite provides excellent lubricating and heat transfer characteristics. Use where lubrication is vital and heat absorption and dissipation is important.

F. QUARTZ particles (L260Qp and M260Qp) = 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.
G. **GRAPHITE/QUARTZ particles** (L260Gp and M260Gp) = Use when heat transfer, lubrication and assistance is needed in breaking up oxides and corrosion. Finer particles than the copper.

H. **TEFLON particles** (L260Tp and M260Tp) = Use when lubrication is essential. Teflon particles are nonconductive.

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

### 3. Grease Comparison Chart:

<table>
<thead>
<tr>
<th>Product</th>
<th>Heat 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>Good</td>
<td>Excellent</td>
<td>Good</td>
</tr>
<tr>
<td>DeoxIT® L260</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Good</td>
</tr>
<tr>
<td>DeoxIT® L260D</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Poor</td>
</tr>
<tr>
<td>Lithium</td>
<td>Good</td>
<td>Good</td>
<td>Fair</td>
<td>Poor</td>
</tr>
<tr>
<td>Lithium Complex</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Fair</td>
<td>Poor</td>
</tr>
<tr>
<td>Complex</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Fair</td>
<td>Poor</td>
</tr>
<tr>
<td>Bentone Clay</td>
<td>Excellent</td>
<td>Good</td>
<td>Good</td>
<td>Poor</td>
</tr>
<tr>
<td>Polyurea</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Good</td>
<td>Poor</td>
</tr>
</tbody>
</table>

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

### 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.
6. Types/Formulations/Part Numbers:

### 6a. Type: L260Np (no particles)

<table>
<thead>
<tr>
<th>Formulation</th>
<th>Part Nos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>99.5% DeoxIT® L260Np Lithium Grease 0.5% Deoxidizing agent</td>
<td>L260-N35 100% pail 15.9 Kg NEW! L260-N10* spray 10 oz (284 g) L260-N2G 100% squeeze tube 2 g L260-N50G 100% cartridge 50 g L260-N1 100% jar 28 g L260-N8TP 100% grease tube 226 g L260-N8 100% jar 226 g L260-N35 100% pail 15.9 Kg</td>
</tr>
</tbody>
</table>

### 6b. Type: L260DNp (infused with DeoxIT® D100L, no particles)

<table>
<thead>
<tr>
<th>Formulation</th>
<th>Part Nos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>97.0% DeoxIT® L260Np Lithium Grease 3% DeoxIT® D-Series D100L</td>
<td>L260-DN35 100% pail 15.9 Kg NEW! L260-DN10D* spray 10 oz (284 g) NEW! L260-DN2G 100% squeeze tube 2 g NEW! L260-DN50G 100% cartridge 50 g NEW! L260-DN1 100% jar 28 g NEW! L260-DN8TP 100% grease tube 226 g NEW! L260-DN8 100% jar 226 g NEW! L260-DN360 100% pail 3.6 Kg NEW! L260-DN35 100% pail 15.9 Kg</td>
</tr>
</tbody>
</table>

### 6c. Type: L260Ap (aluminum particles)

<table>
<thead>
<tr>
<th>Formulation</th>
<th>Part Nos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>96.5% DeoxIT® L260Np Lithium Grease 3.0% Aluminum particles, 600 grit (9 mm) 0.5% Deoxidizing agent</td>
<td>L260-X2G 100% squeeze tube 2 g L260-A50G 100% cartridge 50 g L260-A1 100% jar 28 g L260-A8TP 100% grease tube 226 g L260-A8 100% jar 226 g L260-A35 100% pail 15.9 Kg</td>
</tr>
</tbody>
</table>

### 6d. Type: L260Cp (copper particles)

<table>
<thead>
<tr>
<th>Formulation</th>
<th>Part Nos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>92.5% DeoxIT® L260Np Lithium Grease 7.0% Copper particles, -150 mesh (-105 mm) 0.5% Deoxidizing agent</td>
<td>L260-X2G 100% squeeze tube 2 g L260-A50G 100% cartridge 50 g L260-A1 100% jar 28 g L260-A8TP 100% grease tube 226 g L260-A8 100% jar 226 g L260-A35 100% pail 15.9 Kg</td>
</tr>
</tbody>
</table>

* Different formulation than shown. Refer to Safety Data Sheet for information.
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 solvents, chlorine, and other hazardous materials. They are available in two types:

- **Lithium-based** preparation. Excellent lubrication, good wear resistance, and corrosion protection.
- **Mineral-based** preparation. Superior moisture resistance, resist washout and excessive dilution by water, assuring all-weather protection.

### 1. Product Description:

**Mechanical & Electrical Applications**

DeoxIT® L260 & M260 Grease

- **Electrical:** Used to clean/protect/wet contacts and printed circuit boards (PCBs) to reduce corrosion and increase conductivity.
- **Mechanical:** Effective in breaking up oxides and corrosion buildup, good lubrication, and copper conductive.

**Applications:**

- Electrical connections
- Connectors (lock-out, disconnects, etc.)
- Relays, switches (heavy duty, knife, step, rotary)
- Industrial electrical equipment (lifts, cranes, robotics, etc.)
- Power tools
- High amperage/high voltage applications
- Industrial electrical equipment
- Communications, photography, security, medical, energy

### 2. Formulation:

**DeoxIT® L260**

- **Lithium-based** preparation. Good lubrication, excellent wear resistance, copper conductive.

**DeoxIT® M260**

- **Mineral-based** preparation. Excellent lubrication, good wear resistance, non-conductive.

### 3. Grease Comparison Chart:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Type</th>
<th>Container</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>L260-C2G</td>
<td>100%</td>
<td>squeeze tube</td>
<td>2 g</td>
</tr>
<tr>
<td>L260-C50G</td>
<td>100%</td>
<td>cartridge</td>
<td>50 g</td>
</tr>
<tr>
<td>L260-C1</td>
<td>100%</td>
<td>jar</td>
<td>28 g</td>
</tr>
<tr>
<td>L260-C8TP</td>
<td>100%</td>
<td>grease tube</td>
<td>226 g</td>
</tr>
<tr>
<td>L260-C8</td>
<td>100%</td>
<td>jar</td>
<td>226 g</td>
</tr>
<tr>
<td>L260-C35</td>
<td>100%</td>
<td>pail</td>
<td>15.9 Kg</td>
</tr>
<tr>
<td>L260-G2G</td>
<td>100%</td>
<td>squeeze tube</td>
<td>2 g</td>
</tr>
<tr>
<td>L260-G50G</td>
<td>100%</td>
<td>cartridge</td>
<td>50 g</td>
</tr>
<tr>
<td>L260-G1</td>
<td>100%</td>
<td>jar</td>
<td>28 g</td>
</tr>
<tr>
<td>L260-G8TP</td>
<td>100%</td>
<td>grease tube</td>
<td>226 g</td>
</tr>
<tr>
<td>L260-G8</td>
<td>100%</td>
<td>jar</td>
<td>226 g</td>
</tr>
<tr>
<td>L260-G35</td>
<td>100%</td>
<td>pail</td>
<td>15.9 Kg</td>
</tr>
</tbody>
</table>

### 5. Technical Specifications:

- **VOC Conformity:** VOC (%): Less than 1%
- **Chemical Class:** VOC:
- **Accepted Practices:**
- **Acceptable:**
- **Nonacceptable:**
- **Shipment:**
- **Stability:** Excellent mechanical stability. Safe on plastics.
- **Moisture Resistance:** Superior moisture resistance. Resist washout and excessive dilution by water, assuring all-weather protection.
- **Temperature Range:** Operating temperatures: -40°C to 260°C.
- **Pressure Resistance:** Excellent pressure resistance, excellent oxidation (galvanic corrosion) protection, high dripping-point characteristics.

### 6a. Custom Formulations

**L260Gp**

- **Type:** (graphite particles)
- **Formulation:**
  - 96.5% DeoxIT® L260Np Lithium Grease
  - 3.0% Graphite particles, -150 mesh (-105 mm)
  - 0.5% Deoxidizing agent

**L260Qp**

- **Type:** (quartz particles)
- **Formulation:**
  - 92.5% DeoxIT® L260Np Lithium Grease
  - 7.0% Quartz particles, -200 mesh
  - 0.5% Deoxidizing agent

**L260GQp**

- **Type:** (graphite/quartz particles)
- **Formulation:**
  - 92.5% DeoxIT® L260Np Lithium Grease
  - 2.0% Graphite
  - 5.0% Quartz particles, -200 mesh
  - 0.5% Deoxidizing agent

### 6h. Custom formulations available, contact CAIG associate.
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 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/I/id.7/.

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>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>Dielectric Constant E₀</td>
<td>2.751</td>
<td>3.236</td>
</tr>
<tr>
<td>Dielectric Strength E₀ (kV/cm)</td>
<td>54.6</td>
<td>45.9</td>
</tr>
<tr>
<td>Specific Insulation Resistance D (10¹² ohm-cm)</td>
<td>5.7</td>
<td>5.9</td>
</tr>
<tr>
<td>+.50/-0.03</td>
<td>+.50/-0.03</td>
<td></td>
</tr>
</tbody>
</table>

1. Lowest/Best Operating Temp. (general) | -30°C | -30°C |
2. Highest Operating Temp. (continuous duty) | 200°C | 200°C |

Oil Type……………………Mineral Synthetic Blend
Soap Type……………………None Lithium-12 Hydroxy
Soap %, ……………………9.52
ASTM - Penetration ………..280 295
NLGI ……………………2 2
Deoxidizer …………………Yes Yes
Oxidation Inhibitor ………..Yes Yes
Corrosion Inhibitor ………..Yes Yes
Texture …………………..Buttrey Short Fiber
Color …………………..Amber Amber

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  No Shipping Restrictions
VOC (%): Less than 1%

Hazardous: Yes ORMD (No ground shipping restrictions)
VOC (%): 20.4%

11. Other Information:

RoHS Compliant: YES
VOC Compliant: YES
MSDS Link, L260/M260: http://store.caig.com/s.nl/it/I/id.73/.f
DeoxIT® Grease Product Sheet: http://store.caig.com/s.nl/it/I/id.73/.f
CAIG Essential Guide Link: http://store.caig.com/s.nl/it/I/id.73/.f
WHY DeoxIT® is Different: http://store.caig.com/s.nl/it/I/id.73/.f

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.
DeoxIT® Greases are manufactured in semi-solid form for use as a combination cleaning, deoxidizing, lubricating, and protecting agent. They are excellent for use in areas where lubrication is vital and heat absorption and dissipation is important.

1. Product Description:
   - Excellent oxidation (galvanic corrosion) protection and good dripping-point characteristics.
   - Operating temperatures: -40°C to 260°C.
   - Excellent pressure resistance, excellent oxidation (galvanic corrosion) protection, high dripping-point characteristics. Use where lubrication is vital and heat absorption and dissipation is important.

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

3. Uses:
   - Maximum lubrication for relatively clean surfaces.
   - The infusion of 3% DeoxIT® D-Series D100L into the formulation provides an additional film on the metal surface to dissolve lubrication and protection of surfaces.

4. In extreme environmental conditions (salt, humidity, acidic, pollution), pre-treating with DeoxIT® D-Series degreaser (CAIG Labs., Part Nos. DCC-V510 or DDW-V610).

5. Type/Formulations/Part Numbers:
   - L260-A8TP 100% grease tube 226 g
   - L260-A2G 100% squeeze tube 2 g
   - L260-C8TP 100% grease tube 226 g
   - L260-C1 100% jar 28 g
   - L260-GQ2G 100% squeeze tube 2 g
   - L260-GQ8 100% jar 226 g
   - L260-GQ8TP 100% grease tube 226 g
   - L260-GQ1 100% jar 28 g
   - L260-GQ2G 100% squeeze tube 2 g
   - L260-GQ35 100% pail 15.9 Kg
   - L260-GQ8 100% jar 226 g
   - L260-GQ8TP 100% grease tube 226 g
   - L260-G2G 100% squeeze tube 2 g
   - L260-G35 100% pail 15.9 Kg
   - L260-G8 100% jar 226 g
   - L260-G8TP 100% grease tube 226 g
   - L260-N8TP 100% grease tube 226 g
   - L260-N1 100% jar 28 g
   - L260-Nq 100% squeeze tube 2 g
   - L260-Nq8 100% jar 226 g
   - L260-Nq8TP 100% grease tube 226 g
   - L260-N2G 100% squeeze tube 2 g
   - L260-N35 100% pail 15.9 Kg
   - L260-N8 100% jar 226 g
   - L260-N8TP 100% grease tube 226 g
   - L260-N2G 100% squeeze tube 2 g
   - L260-N35 100% pail 15.9 Kg
   - L260-Npoly 100% jar 226 g
   - L260-NpolyTP 100% grease tube 226 g

6. Types/Formulations/Part Numbers:
   - Aluminized: Use when heat transfer, lubrication and protection of surfaces are required.
   - Teledyne: Use when you need particles (non-conductive) to assist in break up of oxidation and corrosion. Finer particles than the copper.
   - Teledyne: Use when you need particles (non-conductive) to assist in break up of oxidation and corrosion. Finer particles than the copper. *NEW!*

7. Uses:
   - Turn on or energize the part/system.
   - Use when you need particles (non-conductive) to assist in break up of oxidation and corrosion. Finer particles than the copper.

8. Uses:
   - 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).

9. Uses:
   - Liberally onto the entire surface.

10. Uses:
    - Pre-treating with DeoxIT® D-Series degreaser (CAIG Labs., Part Nos. DCC-V510 or DDW-V610).

11. Uses:
    - May be recommended.

12. Uses:
    - Turn off, unplug the device.

13. Contact Information:
    - Website: www.caig.com
      www.deoxit.com
    - General email: info@caig.com
    - Technical email: tech@caig.com

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CAIG Laboratories, Inc.
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Fax: (858) 486-8398

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http://store.caig.com/s.nl/sc.15/f