

## CG60 Contact Grease

CG60 contact lubricant offers enhanced electrical and mechanical properties under the conditions required by today's automotive and domestic equipment industries. It has been specifically designed for use with a vast array of modern and very sensitive plastics.

- Excellent plastics compatibility; suitable with sensitive plastics (ABS/PC), testing is always advised
- Produces low and constant mV drop and contact resistance; ensures reliability of the contact
- Enhances quality of switch; provides smooth operation and extends switch lifetime
- Provides optimal mechanical resistance and reduces electrical background noise

**Approvals** **RoHS Compliant (2015/863/EU):** **Yes**

### Typical Properties

|  |                      |
|--|----------------------|
| Colour   | Cream                |
| Density (g/ml)   | 0.85                 |
| Temperature Range (°C)                                 | -45 to +130          |
| Evaporation Weight Loss (% 7 days @ 100°C)             | 0.2                  |
| Evaporation Weight Loss (% 7 days @ 125°C)             | 2.1                  |
| Copper Strip Corrosion (IP154 / ISO 2160)              | ≤1b                  |
| Silver Corrosion (DIN 51759, 3 hrs @100°C)             | No change            |
| Drop Point (IP32 / ISO 2176 (°C))                      | 200                  |
| Cone Penetration Worked (ASTM D217, 60 strokes @ 20°C) | 320                  |
| Cone Penetration Un-Worked (ASTM D 217 @ 20°C)         | 300                  |
| Cone Penetration Un-Worked (ASTM D 217 @ -40°C)        | 230                  |
| Consistency (NLGI)                                     | 1                    |
| 4 Ball Wear (mm)                                       | 3.264                |
| Weld Load (kgf)  | 126                  |
| Fliessdruck (Flow Pressure) (DIN 51805, mbar @ -40°C)  | 300                  |
| Oil Bleed / Separation (IP121)                         | 5%                   |
| Plastic Compatibility - ABS                            | Test                 |
| Plastic Compatibility - PC                             | Test                 |
| Thickener  | Lithium Complex Soap |
| Neutralisation Value (mgKOH/g)                         | 0.03                 |
| UV Trace   | Yes                  |

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All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification.

Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.

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BS EN ISO 9001:2008  
Certificate No. FM 32082

**Base Oil Properties**

|   |                     |
|---|---------------------|
| Base Oil Type   | PAO / Complex Ester |
| Base Oil Viscosity @ 40°C (Kinematic Viscosity (mm <sup>2</sup> /s))  | 51                  |
| Base Oil Viscosity @ 100°C (Kinematic Viscosity (mm <sup>2</sup> /s)) | 8                   |
| Pour Point (ASTM D 97 (°C))   | -54                 |
| Flash Point (COC ASTM D 92 (°C))                                      | 260                 |

| <b><u>Packing</u></b> | <b><u>Order Code</u></b> | <b><u>Shelf Life</u></b> | <b><u>Container Dimension</u></b>                 |
|-----------------------|--------------------------|--------------------------|---|
| 6g Sachet             | ECG60_6GPL               | 6 months                 |   |
| 35ml Syringe          | ECG6035SL                | 48 months                |   |
| 310ml Cartridge       | ECG60310ML               | 72 months                | 49.6mm (Diameter) x 260mm +15mm (Height + Nozzle) |
| 800g Bulk             | ECG60800G                | 72 months                | 114mm (Diameter) x 120mm (Height)                 |
| 10kg Bulk             | ECG6010K                 | 72 months                | 254mm (Diameter) x 330mm (Height)                 |
| 20kg Bulk             | ECG6020K                 | 72 months                | 305mm (Diameter) x 406mm (Height)                 |

**Directions for Use**

Before final treatment with Electrolube lubricants, contact surfaces should be clean and dry. For general removal of dirt, Electrolube ULS is recommended. Hardened dirt and tarnish, especially on larger contacts, should be removed by rubbing with an abrasive material, which can be impregnated with the lubricant to be used.

After cleaning non-wiping contacts, loosened tarnish should be removed before a final application of lubricant is made. Electrolube Contact Cleaning Strips (CCS) are recommended for this purpose. With wiping contacts, loosened tarnish will be pushed aside. This can be removed if desired, but is usually not necessary, due to the excellent lubricating and protective properties of the contact lubricant.

CG60 can be applied by one of the following methods (although this list is not exhaustive):

- Manually** by way of a syringe
- Semi-automated** using syringe dispensing equipment
- Fully automated** by way of a follower/pusher plate with dispensing system.

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### **Typical Product Applications**

CG60's unique properties are achieved by a blend of low viscosity base oils, containing anti-corrosion, anti-oxidant and metal protection additives, thickened with a complex soap. The use of a complex soap, rather than clay or silica, has the benefit of producing a smoother grease with superior mechanical properties. Therefore decreased wear and a high quality switch "feel" are provided. In addition to these properties, if the switch is exposed to extremely high temperatures over long periods, forcing the base oil to evaporate, the thickener will not remain as an insulative, abrasive layer on the contact surfaces.

The main applications for CG60 include column switches, rocker switches & push-push switches in the automotive and high quality domestic switch industries. The exceptionally low wear characteristics also make this lubricant ideal for high quality audio applications, providing a very smooth, high quality feel operation.

CG60 has been specifically designed as a lubricant to ensure the low and stable electrical contact resistance across mating metal surfaces, by reducing harmful arcing and increasing the effective surface area of the switch. However, due the outstanding nature of its mechanical and plastic compatibility properties, it may also be used as a purely mechanical lubricant for plastic / plastic and plastic / metal interfaces.

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