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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Base Oil Properties

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

Packing	Order Code	Shelf Life	Container Dimension
3g Sachet	ECG60_3GPL	6 months	
35ml Syringe	ECG6035SL	36 months	
310ml Cartridge	ECG60310ML	36 months	49.6mm (Diameter) x 260mm +15mm (Height + Nozzle)
800g Bulk	ECG60800G	36 months	114mm (Diameter) x 120mm (Height)
10kg Bulk	ECG6010K	36 months	254mm (Diameter) x 330mm (Height)
20kg Bulk	ECG6020K	36 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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