Contact Lubricants Technical Data Sheet

ELECTROLUBE

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-2 Compliant (2011/65/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 V	2.1	
Copper Strip (≤1b	
Silver Corrosi	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 Compa	Test	
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Thickener	Lithium Complex Soap	
Neutralisation	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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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 Packing	Order Code	Shelf Life	Container Dimension
6g sachet 35ml Syringe 310ml Cartridge 800g Bulk 10kg Bulk 20kg Bulk	ECG60_6GPL ECG6035SL ECG60310ML ECG60800G ECG6010K ECG6020K	6 months 48 months 72 months 72 months 72 months 72 months	320ml Cartridge 114mm (Diameter) x 120mm (Height) 254mm (Diameter) x 330mm (Height) 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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CG60's unique properties are achieved by a blend of low viscosity base oils, containing anti-corrosion, antioxidant 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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