ELECTROLUBE
THE SOLUTIONS PEOPLE

CTG
Contact Treatment Grease

CTG contact lubricant offers excellent electrical and mechanical properties under the conditions required by today's automotive and domestic equipment industries. It has been specifically designed to lubricate a variety of switches used in the automotive market and provides a very high level of protection from corrosion. CTG has excellent materials compatibility however, as in all applications; it is recommended that compatibility tests are carried out on sensitive materials, particularly thermoplastics, prior to large scale application.

- Excellent corrosion protection and oxidation stability; good protection in harsh environments
- 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

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

Typical Properties

Colour	Cream
Density (g/ml)	0.85
Temperature Range (°C)	-50 to +160
Evaporation Weight Loss (% 7 days @ 125°C)	1.6%
Copper Strip Corrosion (IP154 / ISO 2160)	≤1b
Drop Point (IP32 / ISO 2176 (°C))	>200
Cone Penetration Un-Worked (ASTM D 217 @ 20°C)	325
Cone Penetration Worked (ASTM D217, 60 strokes @ 20°C)	330
Consistency (NLGI)	1
Bleed / Separation (IP121)	<5%
Silver Corrosion (DIN 51759, 3 hrs @100°C)	No change

Packing	Product Code	Order Code	Shelf Life	Container Dimension
20kg Bulk	CTG20K	ECTG20K	72 months	305mm (Diameter) x 406mm (Height)
35ml Syringe	CTG35SL	ECTG35SL	48 months	N/A

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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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Directions for Use

Before final treatment with Electrolube lubricants, contact surfaces should be clean and dry. For general removal of dirt, Electrolube Ultrasolve 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.

CTG 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.

Typical Product Applications

The main applications for CTG 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.

CTG 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.

Revision 4: Jan 2019

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