

Electrolube® CTG

Contact Treatment Grease

DESCRIPTION

Electrolube® 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.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- 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

Standard	Status
RoHS Compliant (2015/863/EU)	Yes

PRODUCT INFORMATION

Please contact your customer service representative for information on available package sizes.

PHYSICAL PROPERTIES

Category	Results
Typical Properties	
Color	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 Worked (ASTM D217, 60 Strokes @ 20 °C)	330
Cone Penetration Un-Worked (ASTM D217 @ 20 °C)	325
Consistency (NLGI)	1
Bleed / Separation (IP121)	<5 %
Silver Corrosion (DIN 51759, 3hrs @ 100 °C)	No change

APPLICATION GUIDELINES

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

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.

ADDITIONAL INFORMATION

Oil separation in greases is a natural occurrence, and small amounts of separation are expected.

Typically, during long term storage, the oil and thickeners will slowly begin to separate. Separation can be accelerated by high temperatures and storage orientation.

If oil separation is observed, we recommend stirring gently with a stainless-steel blade/spatula, in the original packaging, until the grease shows a uniform color and consistency.

Shelf Life: 36 Months

SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available.**

CONTACT INFORMATION

www.macdermidalpha.com

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE . Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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