

LCG

Low Current Grease

DESCRIPTION

LCG has been developed to offer enhanced electrical performance for low current switches as well as offering desirable mechanical properties. **LCG** is suitable for use on the more cost effective, sensitive plastics and under the more arduous conditions required within the automotive industry.

READ ENTIRE TECHNICAL BULLETIN BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- Very low contact resistance; ideal for low current switches
- Excellent plastics compatibility; suitable with sensitive plastics (ABS/PC), testing is always advised
- Enhances quality of switch; excellent mechanical properties providing smooth operation
- Provides optimal mechanical resistance and reduces electrical background noise

APPROVALS

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

PRODUCT INFORMATION

For available packaging sizes please visit:

electrolube.com

PHYSICAL PROPERTIES

Category	Results
Typical Properties	
Color	Cream
Density (g/mL)	0.85
Temperature Range (°C)	-45 to 130
Evaporation Weight Loss % 7 days @ 100 °C	0.2
Copper Strip Corrosion (IP154 / ISO 2160)	≤ 1b
Drop Point (IP32 / ISO 2176 (°C))	200
Cone Penetration Worked (ASTM D217, 60 Strokes @ 20 °C)	320
Cone Penetration Un-Worked (ASTM D217)	
20 °C	300
-40 °C	230
Consistency (NLGI)	1
Fließdruck (Flow Pressure) (DIN 51805, mbar @ -40 °C)	300
Oil Bleed / Separation (IP121)	5%
Silver Corrosion (DIN 51759, 3hrs @ 100 °C)	No change
Plastic Compatibility	
ABS	Test
PC	Test
Thickener	Lithium Complex Soap
UV Trace	Yes
Base Oil Properties	
Base Oil Type	PAO / Complex Ester
Pour Point (ASTM D 97 (°C))	-54
Flash Point (COC ASTM D 92 (°C))	>200

APPLICATION GUIDELINES

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

LCG 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 LCG include low current column switches, rocker switches and push-push switches.

LCG 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 to 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

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

To confirm this document is the most recent version, please contact

TechnicalSupportTeam@hkw.co.uk

www.electrolube.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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