

### CG52B

#### Contact Treatment Grease

#### DESCRIPTION

**CG52B** is part of the 'CG' series of Contact Lubricants, designed an extension of the extremely popular 2X range. The main advantages of these products are reduced contact resistance (even on extremely heavy usage), improved plastics compatibility and improved mechanical lubrication. **CG52B** is suitable for use on either moving or static contacts of all metal types.

READ ENTIRE TECHNICAL BULLETIN BEFORE USING THIS PRODUCT

#### FEATURES AND BENEFITS

- Good stability in a range of conditions; used in automotive wiring loom applications
- 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

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

#### PRODUCT INFORMATION

For available packaging sizes please visit:

[electrolube.com](http://electrolube.com)

### PHYSICAL PROPERTIES

Category	Results
<b>Typical Properties</b>	
Color	Light Brown
Density (g/mL)	0.995
Temperature Range (°C)	-45 to 130
Evaporation Weight Loss % 7 days @ 100 °C	2.21
% 7 days @ 125 °C	3.77
Copper Strip Corrosion (IP154 / ISO 2160)	≤ 1b
Drop Point (IP32 / ISO 2176 (°C))	> 230
Cone Penetration Worked (ASTM D217, 60 Strokes @ 20 °C)	320
Cone Penetration Un-Worked (ASTM D217) 20 °C	310
-40 °C	210
Consistency (NLGI)	1
Fliessdruck (Flow Pressure) (DIN 51805, mbar @ -40 °C)	345
Oil Bleed / Separation (IP121)	5%
Silver Corrosion (DIN 51759, 3hrs @ 100 °C)	No change
Plastic Compatibility ABS	Test
PC	Test
Thickener	Lithium Complex Soap / Clay
UV Trace	No
<b>Base Oil Properties</b>	
Base Oil Type	Complex Ester
Pour Point (ASTM D 97 (°C))	-45
Flash Point (COC ASTM D 92 (°C))	230

### 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.

CG52B 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 unique properties of CG52B have been produced by using 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 thickener, rather than clay or silica, has the benefit of producing smoother grease with superior mechanical properties. These include decreasing wear and producing a high quality switch “feel”. In addition 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.

CG52B has been particularly successful for use as a connector lubricant for automotive wiring looms. This reduces background noise and ensures on-board computers, engine management systems etc. are not affected by electrical spikes.

### ADDITIONAL INFORMATION

**Shelf Life:** 36 Months

The 25Kg grease drum has parallel sides for use with “follower plate” dispensing equipment for automated manufacturing lines.

### 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](http://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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