CG52B
Contact Treatment Grease

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.

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

Typical Properties

Colour	Light Brown
Density (g/ml)	0.995
Temperature Range (°C)	-45 to +130
Evaporation Weight Loss (% 7 days @ 100°C)	2.21
Evaporation Weight Loss (% 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 D 217 @ 20°C)	310
Cone Penetration Un-Worked (ASTM D 217 @ -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
Plastic Compatibility – PC	Test
Thickener	Lithium Complex Soap / Clay
UV Trace	No

Base Oil Properties

Base Oil Type	Complex Ester
Pour Point (ASTM D 97 (°C))	-45
Flash Point (COC ASTM D 92 (°C))	230

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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.

Ashby Park, Coalfield Way,
Ashby de la Zouch,
Leicestershire LE65 1JR
T +44 (0)1530 419 600
F +44 (0)1530 416 640
BS EN ISO 9001:2008
Certificate No. FM 32082

Packing	Order Code	Shelf Life	Container Dimension
35ml Syringe	CG52B35SL	48 months	
1 Kg Bulk	CG52B01K	72 months	
5 Kg Bulk	CG52B05K	72 months	
12.5 Kg Bulk	CG52B12.5K	72 months	254mm (inside diameter) x 330mm (height)
25 Kg Bulk	CG52B25K	72 months	305mm (inside diameter) x 406mm (height)

The 12.5 and25 kg grease drums have parallel sides for use with “follower plate” dispensing equipment for automated manufacturing lines.

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.

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 Applications

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.

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