CG80
High Temperature Contact Grease

CG80 is a synthetic grease with exceptionally high temperature stability and oxidation resistance. It is ideal for protecting contacts in environments where extremes of temperature and environmental conditions are encountered. CG80 does not contain silicones. Correct application of the right grade of contact lubricant will reduce contact resistance and arcing of contacts so their service life can be extended.

- Highly stable synthetic material; fully inhibited against copper corrosion and oxidation
- Very wide operating temperature range; ideal for applications exposed to high temperatures
- Improves contact performance; increases the effective contact area and preventing arcing
- Produces low and constant mV drop and contact resistance; ensures reliability of the contact

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

Typical Properties:

Colour	Cream
Density (g/ml)	1
Temperature Range (°C)	-30 to +160
Maximum Operating Temperature, short term (°C)	+180
Evaporation Weight Loss (% 7 days @ 125°C)	0.5
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 D 217 @ 20°C)	300
Cone Penetration Un-worked (ASTM D 217 @ -40°C)	230
Consistency (NLGI)	1
Oil Bleed / Separation (IP121)	5%
Plastic Compatibility - ABS	Test
Plastic Compatibility - PC	Test
Thickener	Lithium Complex Soap
UV Trace	Yes

Base Oil Properties:

Base Oil Type	PAO/ Polyol Ester
Pour Point (ASTM D 97 (°C))	-35
Flash Point (COC ASTM D 92 (°C))	>200

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	ECG8035SL	48 months	
10kg Bulk	ECG8010K	72 months	254mm (Diameter) x 330mm (Height)

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.

CG80 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

CG80 contains anti-corrosion, anti-oxidant and metal protection additives, and is thickened with a complex soap. The use of a complex soap, rather than clay or silica, has the benefit of producing a smoother grease with superior mechanical properties. Therefore decreased wear and a high quality switch “feel” are provided. In addition to these properties, 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.

CG80 is suitable for use on all types of electrical contacts including those in corrosive industrial environments and in heavy arcing conditions e.g. large connections, battery terminals, contactors, bus-bars, knife switches, rheostats, large voltage regulators etc. It is particularly suitable where the contact may be exposed to elevated temperatures due to the environment or generated by current.

CG80 may also be used on fixed or moving contacts, edge connectors, turret tuners, plug sockets, switching devices, potentiometers, fuses, small regulators, slip rings, slider/rotary controls, rocker/push-pull edge connectors, valve pins, switchgear and butting contacts. Care should be taken to ensure that certain paints, rubbers, and thermoplastics are not near the area of the contact. A small area should be tested first to ensure compatibility.

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