

# Electrolube® CO70

## Contact Oil

### DESCRIPTION

**Electrolube® CO70** Contact Oil has been developed to offer exceptional performance at low temperatures (down to -55 °C). It is ideal for use on contacts with low contact pressures and in applications where it will not migrate, for example brushes, bearings, jack plugs, push button switches, relays etc. It is also suitable for lubricating slip ring and slip disc contacts.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

### FEATURES AND BENEFITS

- Exceptional performance at low temperatures; can be used down to -55 °C
- Good plastics compatibility; suitable with some sensitive plastics, testing is always advised
- Produces low and constant mV drop and contact resistance; ensures reliability of the contact
- Grease version available, CG70; for use on surfaces where an oil may migrate

### 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
<b>Typical Properties</b>	
Appearance	Colorless Liquid
Base	Blend of Synthetic Fluids
Density @ 20 °C (ASTM D1298 (g/mL))	0.85
Kenematic Viscosity (mm <sup>2</sup> /s)	
20 °C	44
40 °C	22
Operating Temperature Range (°C)	-55 to 130
Copper Corrosion; 4 hours @ 150 °C (DIN 51759/IP112)	Class 1a
Silver Corrosion 3 hours @ 100 °C (DIN 51759)	No Color Change
Pour Point (°C)	-70
Flash Point (°C)	>220
<b>Mechanical Properties</b>	
4 Ball Wear (mm)	2.895
Weld Load (kgf)	126

**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.

CO70 can be applied by one of the following methods (although this list is not exhaustive):

**Manually** by way of a syringe/dropper bottle  
**Semi-automated** using syringe dispensing  
**Fully automated** by way of a dispensing system

**TYPICAL PRODUCT APPLICATION**

CO70 is ideal for use on contacts with low contact pressures and in applications where it will not migrate, for example brushes, bearings, jack plugs, push button switches, relays etc. It is also suitable for lubricating slipping and slipdisc contacts.

**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**

[www.macdermidalpha.com](http://www.macdermidalpha.com)

<p><b>North America</b>          140 Centennial Avenue          Piscataway, NJ 08854, USA          1.800.367.5460</p>	<p><b>Europe</b>          Ashby Park          Coalfield Way          Ashby de la Zouch          Leicestershire, LE65 1JR, UK          44.01530.41960</p>	<p><b>Asia</b>          8/F., Two Sky Parc          51 Hung To Road          Kwun Tong, Kowloon,          Hong Kong, SAR China          852.2500.5365</p>
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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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