

SOB

Electrolube 2X Oil

DESCRIPTION

SOB (2X Oil) was developed as an extension of the No 2 Range (SGA and SOA) with increased plastics compatibility. This product development was necessary due to the use of thermoplastics in the electronics and automotive industries. **SOB** will significantly increase contact performance and lifetime. Separate data sheets are available: diluted oil (EML), grease (SGB) and the low penetration grease (SGBH).

READ ENTIRE TECHNICAL BULLETIN BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- Improves contact performance by increasing effective contact area
- Enhanced plastics compatibility; suitable for a range of plastics and rubbers (testing advised)
- Highly stable synthetic material, fully inhibited against oxidisation and copper corrosion
- Excellent penetration and cooling properties; prevents arcing, thus reduces contact wear

• APPROVALS

Standard	Status
RoHS Compliant (2015/863/EU)	Yes
NATO Stock No	
Bulk (5 kg)	6850-99-439-6845
Aerosol (200 mL)	6850-99-220-1589

PRODUCT INFORMATION

For available packaging sizes please visit:

electrolube.com

PHYSICAL PROPERTIES

Category	Results
Typical Properties	
Color	Colorless
Density (g/mL)	1.002
Temperature Range (°C)	-40 to 130
Vapor Pressure (Torr @ 20 °C)	0.001
Evaporation Weight Loss % 7 days @ 100 °C	0.90
Copper Strip Corrosion (IP154 / ISO 2160)	≤ 1b
Silver Corrosion (DIN 51759, 3hrs @ 100 °C)	No Change
Plastic Compatibility ABS PC	Test Test
Ash (%)	<0.02
Neutralization Value (mg KOH/g)	0.26
Water Content (ppm)	49
Refractive Index	1.45
Pour Point (ASTM D 97 (°C))	-37
Flash Point (COC ASTM D 92 (°C))	210
Viscosity (Kinematic Viscosity (cST) 40 °C 100 °C	225 37
Viscosity Index (ASTM D 2270)	220
UV Trace	No
Type	Glycol
Electrical Properties	
Breakdown Voltage (BS148 (kV))	60

APPLICATION GUIDELINES

Before final treatment without 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.

SOA 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

SOB can be used on all types of electrical contacts and with most types of thermoplastics. A small area should be tested first to ensure compatibility. SOA should be used on contacts that have very low contact forces and in applications where it will not migrate. Typical areas of use are small contacts, brushes, bearings, organ key contacts, jack plugs, push button switches and relays

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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