SOB
Electrolube 2X Oil

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).

- 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	**RoHS Compliant (2015/863/EU):**	**Yes**
	Nato Stock No. (5kg Bulk):	**6850-99-439-6845**
	Nato Stock No. (200ml Aerosol):	**6850-99-220-1589**

Typical Properties

Colour	Colourless
Density (g/ml)	1.002
Temperature Range (°C)	-40 to +130
Vapour Pressure (Torr @ 20°C)	0.001
Evaporation Weight Loss (% 72 hours @ 100°C)	0.90
Copper Strip Corrosion (IP154 / ISO 2160)	≤1b
Silver Corrosion (DIN 51759, 3hrs @100°C)	No change
Plastic Compatibility - ABS	Test
Plastic Compatibility - PC	Test
Ash %	< 0.02
Neutralisation Value (mg KOH/g)	0.26
Water Content (ppm)	49
Refractive Index	1.45
UV Trace	No
Type	Poly Alkylene Glycol
Viscosity @ 40°C (Kinematic Viscosity (cSt))	225
Viscosity @ 100°C (Kinematic Viscosity (cSt))	37
Viscosity Index (ASTM D 2270)	220
Pour Point (ASTM D 97 (°C))	-37
Flash Point (COC ASTM D 92 (°C))	210

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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.

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Certificate No. FM 32082

Electrical Properties

Breakdown Voltage (BS148 (kV))	60

Description	Packing	Order Code	Shelf Life
SOB No. 2X Oil	1kg Bulk	SOB01K	72 months
	5kg Bulk	SOB05K	72 months
	25kg Bulk	SOB25K	72 months
	200ml Aerosol	SOB200D	48 months

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.

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 Applications

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

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