2X Contact Lubrication Range

TECHNICAL DATA SHEET

Product Code: SGB (Grease), SOB (Oil)

PRODUCT DESCRIPTION

The Electrolube 2X range was developed as an extension of the No 2 Range with increased plastics compatibility. This product development was necessary due to the increasing use of thermoplastics in the electronics and automotive industries. The 2X Range offers similar properties to the 2 Range in that the use of one of these contact lubricants will significantly increase contact performance and lifetime. A separate data sheet is available on the diluted version of the 2X Oil, called Contact Cleaner Lubricant (EML). 100% Ozone Friendly aerosol products are available.



PRODUCT USE

For the lubrication of all types of electrical contacts with most types of thermoplastics. A separate data sheet is available with a listing of compatible plastics. If in any doubt a small area should be tested prior to full scale production.

2X Oil should be used on contacts with very low or high contact pressures and in applications where it will not migrate. For example brushes, commutators, bearings, jack plugs, push button switches, relays etc.

2X Grease is a non-melting product that will not migrate from vertical surfaces and will provide greater environmental protection than the oil. Thus the grease is preferable in industrial applications where heavy arcing is common. For example battery terminals, knife switches, rheostats etc. The grease is also preferable in switches with a very long lifetime and high cycle rate, for example, the automotive switching industry.

FEATURES

* Improves contact performance by increasing effective contact area

* Harmless to most plastics and rubbers

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* Contains no silicones or hydrocarbons reducing switch contamination
* Will loosen tarnish and corrosion and leave a protective film to prevent further contamination
* Prevents arcing, thus reduces contact wear
* Highly stable synthetic material, fully inhibited against oxidisation and copper corrosion
* Excellent penetration and cooling properties
* Good mechanical lubrication
* The aerosol version of 2X oil (SOB200D) is prepared using a non flammable solvent (Methylene Chloride) and a 100% ozone friendly propellant blend. This material should be tested when sensitive plastics are present.

TYPICAL PROPERTIES

	SOB	SGB
Kinematic Viscosity (20°C):	640 cSt	N/A
Viscosity Index (ASTM D2270/74):	220	N/A
Specific Gravity (20°C):	1.002	1.113
Pour Point (°C):	-37	N/A
Temperature Range (°C):	-40 to +130	-35 to +130
Flash Point (°C):	210	N/A
Vapour Pressure (mm Hg) @ 20°C:	0.001	N/A
Evaporation Weight Loss % (IP183-63 72 hours @ 100°C):	0.9	2.34
Copper Strip Corrosion (IP.112/56 @ 150°C):	1	1
Penetration @ 20°C (ASTM D217 worked 60 Strokes):	N/A	295-350 (typical 320)
Water Content By Weight (%):	0.20	0.60
Drop Point:	N/A	250°C

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Ash Percent (ASTM D-482, IP-4):	0.01	N/A
Refractive Index:	1.45	N/A
Breakdown Voltage (kV @ 20°C):	60.0	N/A

PACKAGING	**ORDER CODE**
2X Oil	
5 ml Pen	SOB05P
55 ml Bottle	SOB55B
1 Kg Bulk	SOB01K
5 Kg Bulk	SOB05K
25 Kg Bulk	SOB25K
200 ml Aerosol (100% Ozone Friendly, non-flammable)	SOB200D
2X Grease	
20 ml Syringe	SGB20S
35 ml Syringe	SGB35SL
200 ml Aerosol (100% Ozone Friendly, Flammable)	SGB200D
1 Kg Bulk	SGB01K
5 Kg Bulk	SGB05K
12.5 Kg Bulk	SGB12.5K
25 Kg Bulk	SGB25K
2X Contact Cleaner Lubricant	
200 ml Aerosol (100% Ozone Friendly, Flammable)	EML200F

The 12.5 and 25 kg grease drums have parallel sides for use with "follower plate" dispensing equipment for automated manufacturing lines. The drum dimensions are:

12.5 kg	254mm (inside diameter) x 330mm (height)
25 kg	305mm (inside diameter) x 406mm (height)

NATO Stock no (SGB01K): 6850-99-220-4560
NATO Stock no (SGB200D): 6850-99-224-1974
NATO Stock no (SOB200D): 6850-99-439-6845

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