

ECCOSHIELD® SO

HIGHLY CONDUCTIVE LUBRICATING GREASE

Description :

ECCOSHIELD SO is a conductive grease that is effective in lubricating moving surfaces that must be electrically conductive.

A film of ECCOSHIELD SO will protect metal surfaces from corrosion.

Application :

ECCOSHIELD SO is applied as a thin film to cleaned joints or contacts and has been used successfully in the hinge joint of knife blade switches and certain circuit breakers and as a lubricant directly on switch contacts. It should be used with caution in high speed sleeve and ball bearings, as freeze-up may result.

In the RF shielding field, ECCOSHIELD SO finds use as a lubricant in assembly housings, enclosures, equipment cases and even the equipment itself.

Insertion loss of test housings was improved significantly when ECCOSHIELD SO was used throughout. Insertion losses in excess of 100 dB from 15 kHz to 10 GHz were obtained in many instances.

Applying ECCOSHIELD SO on screw threads will lubricate them for easy assembly or removal and assure excellent electrical contact.

Applying a thin film to mating metal surfaces will improve contact and prevent corrosion at a later time insuring the RF integrity of the joint.

ECCOSHIELD SO has been used successfully in heat transfer applications; a thin film will often eliminate the "air gap" between adjacent surfaces and produce a heat transfer path equivalent to that of solid metal.

Other applications include the use of ECCOSHIELD SO as lubricants for large metal-to-metal sliding contacts which require continuous electrical conductive paths and grounding of enclosures, equipment and components which require lubrication to overcome friction as well as electromagnetic-interference control.

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Physical Properties

	SO
Colour	White
Volume resistivity (Ohm.cm)	< 0.02
Un-worked Penetration, ASTM-D-217	<170
Humidity Resistance	Non corrosive
Fungus Resistance	Non supportive
Shell 4 Ball Wear Test: (1 hour at 75 °C, 600 rpm, 10 kg load), scar dia., mm	<0.08

Availability :

ECCOSHIELD SO is available in 100g container.

Instructions for use :

The material should be used sparingly. A thin film is more effective than having an excess amount. Stir the contents of the container in which the ECCOSHIELD SO is received to assure proper uniformity and then apply to cleaned surfaces. Excess material can be returned to the container. For clean up or removal of ECCOSHIELD SO, use methyl ethyl ketone (MEK).



Safety Considerations: It is recommended to consult the EMERSON & CUMING MICROWAVE PRODUCTS product literature, including material safety data sheets, prior to use EMERSON & CUMING MICROWAVE PRODUCTS products. These may be obtained from your local sales office.

WARRANTY: Values shown are based on testing of laboratory test specimens and represent data that falls within the normal range of properties of the material. These values are not intended for use in establishing maximum, minimum or ranges of values for specification purposes. Any determination of the suitability of the material or any use contemplated by the user and the manner of such use is the sole responsibility of the user who must assure that the material as subsequently processed meets the needs of this particular product or use. We hope the information given here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale INCLUDING THOSE LIMITING WARRANTIES AND REMEDIES which apply to all goods supplied by us. We assume no responsibility for the use of these statements, recommendations or suggestions nor do we intend them as a recommendation for any use which would infringe any patent or copyright.

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