

ECCOSHIELD® SO

Highly Conductive Lubricating Grease

Material Characteristics

- 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

Applications

- 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 or freeze-up may result
- Lubricants for large metal-to-metal sliding contacts which require continuous electrical conductive paths
- Grounding of enclosures, equipment and components which require lubrication to overcome friction as well as electromagnetic-interference control
- 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

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 in to assure proper uniformity and 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)

Shipping & Availability

- ECCOSHIELD® SO is available in one quarter pound (1 oz.) and one pound (4 oz.) jars

Typical Properties

Appearance	White Translucent
Service Temperature, °F (°C)	-38 to 300 (-39 to 149)
DC Volume Resistivity	< 0.02 ohm-cm
Un-worked Penetration, ASTM-D-217	>170
Humidity Resistance	non-corrosive
Fungus Resistance	non-supporting
Shell 4 Ball Wear Test: (1 hour at 167 °F (75 °C), 600 rpm, 10 kg load), scar dia., mm.	<0.08
Shelf Life	6 months

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