

Electrolube® SGA

Contact Grease 2G

DESCRIPTION

Electrolube® number 2 range of contact lubricants were developed in response to a requirement for an effective treatment for all types of contacts, particularly in situations where extremes of temperature and environmental conditions are encountered. This range includes SGA contact grease and SOA contact oil. **SGA** is a non-melting grease which will not migrate from vertical contacts or surfaces and will provide greater protection from atmospheric conditions than an oil.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- Excellent lubrication properties; spiral shaped molecules with effective length of 20 Angstrom units
- Produces low and constant mV drop and contact resistance; low evaporative weight loss
- Will loosen tarnish and corrosion, leaving a protective film to prevent further contamination.
- High stable synthetic material; fully inhibited against copper corrosion and contains no silicones.

APPROVALS

Standard	Status
RoHS Compliant (2015/863/EU)	Yes
NATO Stock No	
SGA01K	6850-99-220-1588
SGA20S	9150-99-573-8274

PRODUCT INFORMATION

Please contact your customer service representative for information on available package sizes.

PHYSICAL PROPERTIES

Category	Results
Typical Properties	
Color	Beige
Density (g/mL)	1
Temperature Range (°C)	-40 to 125
Evaporation Weight Loss % 7 days @ 100 °C	3.17
% 7 days @ 125 °C	3.35
Copper Strip Corrosion (IP154 / ISO 2160)	≤ 1b
Drop Point (IP32 / ISO 2176 (°C))	267
Cone Penetration Worked (ASTM D217, 60 Strokes @ 20 °C)	320
Cone Penetration Un-Worked (ASTM D217) 20 °C	300
-40 °C	170
Consistency (NLGI)	1
Fließdruck (Flow Pressure) (DIN 51805, mbar @ -40 °C)	650
Oil Bleed / Separation (IP121)	5%
Plastic Compatibility ABS	Test
PC	Test
Thickener	Clay
Neutralization Value (mgKOH/g)	0.2
Water Content	0.4%
UV Trace	No
Electrical Properties	
Loss Tangent (Tan Delta 1MHz)	0.03
Base Oil Properties	
Base Oil Type	Complex Ester

Category	Results
Base Oil Viscosity (Kinematic Viscosity (cSt))	
40 °C	49
100 °C	10
Base Oil Viscosity Index (ASTM D 2270)	197
Pour Point (ASTM D 97 (°C))	-54
Flash Point (COC ASTM D 92 (°C))	>200

APPLICATION GUIDELINES

Before final treatment with our 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.

SGA can be applied by one of the following methods (although this list is not exhaustive):

Manually by way of a syringe

Semi-automated using syringe dispensing

Fully automated by way of a follower/pusher plate with dispensing system.

TYPICAL PRODUCT APPLICATION

SGA is suitable for use on all types of electrical contacts including those in corrosive industrial environments and in heavy arcing conditions e.g., large connections, battery terminals, contactors, busbars, knife switches, rheostats, large voltage regulators etc.

SGA may also be used on fixed or moving contacts, edge connectors, turret tuners, plug sockets, switching devices, potentiometers, fuses, small regulators, slip rings, slider/rotary controls, rocker/push-pull edge connectors, valve pins, switchgear and butting contacts.

Care should be taken to ensure that certain paints, rubbers, and thermoplastics are not near the area of the contact. A small area should be tested first to ensure compatibility.

ADDITIONAL INFORMATION

Oil separation in greases is a natural occurrence, and small amounts of separation are expected.

Typically, during long term storage, the oil and thickeners will slowly begin to separate. Separation can be accelerated by high temperatures and storage orientation.

If oil separation is observed, we recommend stirring gently with a stainless-steel blade/spatula, in the original packaging, until the grease shows a uniform color and consistency.

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

www.macdermidalpha.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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