

SGBH

Contact Treatment Grease – Low Penetration

DESCRIPTION

The 2X range of lubricants was developed as an extension of the No. 2 Range (SFA, SGA and SOA) with increased plastics compatibility. This product development was necessary due to the use of thermoplastics in the electronics and automotive industries. **SGBH** is a modified version of SGB offering a harder consistency.

READ ENTIRE TECHNICAL BULLETIN BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- 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 oxidization and copper corrosion
- Lower cone penetration than SGB; harder consistency offering enhanced environmental protection

APPROVALS

Standard	Status
RoHS Compliant (2015/863/EU)	Yes

PRODUCT INFORMATION

For available packaging sizes please visit:

electrolube.com

PHYSICAL PROPERTIES

Category	Results
Typical Properties	
Color	Brown
Temperature Range (°C)	-35 to 130
Vapor Pressure	0.001 Torr @ 20 °C
Evaporation Weight Loss % 7 days @ 100 °C	3.73
% 7 days @ 125 °C	4.10
Copper Strip Corrosion (IP154 / ISO 2160)	≤ 1b
Drop Point (IP32 / ISO 2176 (°C))	>250
Cone Penetration Worked (ASTM D217, 60 Strokes @ 20 °C)	300
Consistency (NLGI)	2
Fließdruck (Flow Pressure) (DIN 51805, mbar @-40 °C)	720
Oil Bleed / Separation (IP121)	5%
Plastic Compatibility ABS	Test
PC	Test
Thickener	Clay
Water Content	0.6%
UV Trace	Yes
Electrical Properties	
Breakdown Voltage (BS148 (kV))	4.05
Base Oil Properties	
Base Oil Type	Poly Alkylene Glycol
Base Oil Viscosity (Kinematic Viscosity (cSt) 40 °C	225
100 °C	37
Base Oil Viscosity Index (ASTM D 2270)	214

Category	Results
Pour Point (ASTM 97 (°C))	-37
Flash Point (COC ASTM D 92 (°C))	214
Mechanical Properties	
4 Ball Wear (mm)	1.937
Weld Load (kgf)	126

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.

SGBH 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

In production processes, contact lubricant should be applied to the contact components as soon as possible after manufacture or plating to protect against handling contamination and tarnishing.

TYPICAL PRODUCT APPLICATION

For the lubrication of all types of electrical contacts with most types of thermoplastics. If in any doubt a small area should be tested prior to full scale production.

SGBH grease is a non-melting product that will not migrate from vertical surfaces and will provide greater environmental protection than the oil or standard grease SGB.

ADDITIONAL INFORMATION

Shelf Life: 36 Months

The 12.5kg and 25kg grease drums have parallel sides for use with “follower plate” dispensing equipment for automated manufacturing lines.

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

To confirm this document is the most recent version, please contact

TechnicalSupportTeam@hkw.co.uk

www.electrolube.com

North America 109 Corporate Blvd. South Plainfield, NJ 07080, USA 1.800.367.5460	Europe Ashby Park Coalfield Way Ashby de la Zouch Leicestershire, LE65 1JR, UK 44.01530.41960	Asia 8/F., Paul Y. Centre 51 Hung To Road Kwun Tong, Kowloon, Hong Kong 852.3190.3100
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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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