



Technical Data Sheet

SGBH

Contact Treatment Grease – Low Penetration

Product Description

The 2X product range was developed as an extension of the No 2 Range (SFA, SGA and SOA) with increased plastics compatibility, due to the increased use of thermoplastics in the electronics and automotive industries. SGBH has a harder consistency than SGB, The use of SGBH will significantly increase contact performance and lifetime.

Separate data sheets are available for the standard grease (SGB), red standard grease (SGBR), diluted oil (EML), and oil (SOB).

Features

- Lower cone penetration version of SGB
- Improves contact performance by increasing effective contact area
- Harmless to most plastics and rubbers
- 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 oxidation and copper corrosion
- Good mechanical lubrication

Approvals **RoHS Compliant (2002/95/EC):** **Yes**

Typical Properties:

Colour	Brown
Density (g/ml)	1.1
Temperature Range (°C)	-35 to +130
Vapour Pressure	0.001 Torr @ 20°C
Evaporation Weight Loss (% 7 days @ 100°C)	3.73
Evaporation Weight Loss (% 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
Plastic Compatibility - PC	Test
Thickener	Clay
Water Content (%)	0.6
UV Trace	No

Electrical Properties:

Breakdown Voltage (BS148 (kV)) 4.05

Base Oil Properties:

Base Oil Type	Poly Alkylene Glycol
Base Oil Viscosity @ 40°C (Kinematic Viscosity (cSt))	225
Base Oil Viscosity @ 100°C (Kinematic Viscosity (cSt))	37
Base Oil Viscosity Index (ASTM D 2270)	214
Pour Point (ASTM D 97 (°C))	-37
Flash Point (COC ASTM D 92 (°C))	214

Mechanical Properties:

4 Ball Wear (mm)	1.937
Weld Load (kgf)	126

<u>Packing</u>	<u>Order Code</u>	<u>Shelf Life</u>	<u>Container Dimension</u>
12.5Kg Bulk	SGBH12.5K	72 Months	254mm (Diameter) x 330mm (Height)
25Kg Bulk	SGBH25K	72 Months	329mm (Diameter) x 418mm (Height)

Directions For Use

Before final treatment with Electrolube lubricants, contact surfaces should be clean and dry. For general removal of dirt, Electrolube 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. Electrolube 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 manually or using an automated dispensing system. Both the 12.5kg and the 25kg pack sizes are suitable for fully automated use with 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 Applications

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.

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