SGBH
Contact Treatment Grease – Low Penetration

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.

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

Approvals	**RoHS Compliant (2015/863/EU):**	**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

Ashby Park, Coalfield Way,
Ashby de la Zouch,
Leicestershire LE65 1JR
T +44 (0)1530 419 600
F +44 (0)1530 416 640
BS EN ISO 9001:2008
Certificate No. FM 32082

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

Packaging	Order Code	Shelf Life	Container Dimension
12.5kg Bulk	SGBH12.5K	72 Months	254mm (Diameter) x 330mm (Height)
25kg Bulk	SGBH25K	72 Months	329mm (Diameter) x 418mm (Height)

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

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 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.

Ashby Park, Coalfield Way,
Ashby de la Zouch,
Leicestershire LE65 1JR
T +44 (0)1530 419 600
F +44 (0)1530 416 640
BS EN ISO 9001:2008
Certificate No. FM 32082

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.

Revision 2: Jan 2019

Ashby Park, Coalfield Way,
Ashby de la Zouch,
Leicestershire LE65 1JR
T +44 (0)1530 419 600
F +44 (0)1530 416 640
BS EN ISO 9001:2008
Certificate No. FM 32082