Technical Data Sheet



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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			

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Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.

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Base Oil Properties

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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

<u>Packaging</u>	Order Code	Shelf Life	Container Dimension
12.5kg Bulk	SGBH12.5K	36 Months	254mm (Diameter) x 330mm (Height) 329mm (Diameter) x 418mm (Height)
25kg Bulk	SGBH25K	36 Months	

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

Weld Load (kgf)

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.

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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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