SGN
Special Contact Grease 10

SGN was developed in response to the requirement for exceptional performance at low temperatures, making this product ideal for automotive applications.

- Excellent low temperature performance, down to -65°C; ideal for automotive applications
- Grease version; consistency allows application to vertical surfaces where an oil would flow
- Highly stable synthetic material, fully inhibited against oxidisation and copper corrosion; silicone free
- Oil version also available under the code SON

Approvals	**RoHS-2 Compliant (2011/65/EU):**	**Yes**

Typical Properties

Colour	Brown
Density (g/ml)	0.96
Temperature Range (°C)	-40 to +125
Evaporation Weight Loss (% 7 days @ 100°C)	2.02
Evaporation Weight Loss (% 7 days @ 125°C)	2.52
Copper Strip Corrosion (IP154 / ISO 2160)	≤1b
Drop Point (IP32 / ISO 2176 (°C))	>250
Cone Penetration Worked (ASTM D217, 60 strokes @ 20°C)	320
Cone Penetration Un-worked (ASTM D 217 @ 20°C)	300
Cone Penetration Un-worked (ASTM D 217 @ -40°C)	170
Consistency (NLGI)	1
Fliessdruck (Flow Pressure) (DIN 51805, mbar @ -40°C)	720
Oil Bleed / Separation (IP121)	5%
Plastic Compatibility - ABS	Test
Plastic Compatibility - PC	Test
Thickener	Clay
UV Trace	No

Electrical Properties

Breakdown Voltage (BS148 (kV))	60

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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

Base Oil Type	Complex Ester
Base Oil Kinematic Viscosity @ 40°C (cSt)	14
Base Oil Viscosity @ 100°C (Kinematic Viscosity (cSt))	3.4
Base Oil Viscosity Index (ASTM D 2270)	120
Pour Point (ASTM D 97 (°C))	-65
Flash Point (COC ASTM D 92 (°C))	>200

Packaging	Order Code	Shelf Life	Container Dimension
1kg Bulk	SGN01K	72 Months	114mm (Diameter) x 120mm (Height)
12.5kg Bulk	SGN12.5K	72 Months	254mm (Diameter) x 330mm (Height)
25kg Bulk	SGN25K	72 Months	305mm (Diameter) x 406mm (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.

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

Manually by way of a syringe or aerosol
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 Applications

SGN can affect certain thermoplastics and is therefore recommended for use with materials that are resistant to stress cracking, such as nylon, glass-filled nylon, polyacetal etc. Due to its outstanding low temperature properties SGN and also the oil version, SON, are particularly suitable for sliding switches required to operate below -40°C and involving low contact pressures and actuating force. Applications exhibiting such features are common among automotive switches.

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