

SON Contact 10 Oil

SON was developed in response to the requirement for exceptional performance at low temperatures, making this product ideal for automotive applications. The low viscosity of the oil makes it ideal for use in intricate switches, such as ignition switches, where the lubricant must be able to flow into small gaps. SON is also ideal for micro-switches where low contact pressures exist.

- Excellent low temperature performance, down to -65°C; ideal for automotive applications
- Oil version; use on intricate switches and micro-switches with low contact pressures
- Highly stable synthetic material, fully inhibited against oxidation and copper corrosion; silicone free
- Grease version also available under the code SGN

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

Typical Properties

Colour	Pale Straw
Type	Complex Ester
Density (g/ml)	0.95
Temperature Range (°C)	-65 to +110
Evaporation Weight Loss (ASTM D972 / % 6 hours @ 200°C)	8.5
Copper Strip Corrosion (IP154 / ISO 2160)	≤1b
Viscosity @ 20°C (Kinematic Viscosity (cSt))	30
Viscosity @ -55°C (Kinematic Viscosity (cSt))	16000
Viscosity Index (ASTM D 2270)	120
Pour Point (ASTM D 97 (°C))	-66
Flash Point (COC ASTM D 92 (°C))	230
Water Content (ppm)	75
Acidity (KOH/gm)	0.23
Ash Content (%)	0.02

Electrical Properties

Breakdown Voltage (BS148 (kV))	49
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<u>Description</u>	<u>Packaging</u>	<u>Order Code</u>	<u>Shelf Life</u>
SON – Contact 10 Oil	5kg Bulk	SON05K	72 Months

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All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification.

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.

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

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.

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

Manually applying to the contact surface

Semi-automated using manually operated bench top dispensing equipment

Fully automated by way of an automated 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

SON 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 SON and also the grease version, SGN, 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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