

SCO Silicone Grease Compound

SCO is a high quality, multi-purpose electrical insulating compound with excellent water and moisture repellence. SCO also has good adhesion and spreading characteristics on dry surfaces of metal, ceramic, rubber, PVC and all forms of electrical insulation, it is also resistant to hardening with age.

- Excellent resistance to water erosion and corrosion from rain, condensation and moisture
- Excellent electrical insulating compound; high resistance to tracking and corona discharge
- Chemically inert, odourless and non-toxic; safe in use
- Consistency similar to petroleum jelly; ideal for sealing applications

Approvals

RoHS Compliant (2015/863/EU):
US Military Specification MIL-I-8660B:
DEF STAN 68-69:

Yes
Meets
Meets

Typical Properties

Colour	Colourless
Density, bulk (g/ml)	1.0
Density, aerosol (g/ml)	0.7
Temperature Range (°C)	-50 to + 220
Evaporation Weight Loss (% 7 days @ 100°C)	0.2
Evaporation Weight Loss (% 7 days @ 125°C)	0.2
Evaporation Weight Loss (% 30 hours @ 205°C)	<2.5
Cone Penetration Worked (ASTM D217, 60 strokes @ 20°C)	460
Cone Penetration Un-Worked (ASTM D 217 @ 20°C)	230
Cone Penetration Un-Worked (ASTM D 217 @ -40°C)	230
Consistency (NLGI)	0
Oil Bleed / Separation (IP121)	3%
UV Trace	No
Thermal Conductivity (W/m.K)	0.16
Solubility (Weight Loss) in:	
Distilled Water	0.2
Isopropyl Alcohol	8.0
Ethyl Alcohol	3.0
Ethylene Glycol	0.2
Glycerine	0.3

Electrical Properties

Dielectric Constant (1 MHz)	2.83
Dielectric Constant (1 KHz)	2.80
Dielectric Strength (kV, 1 min)	20
Volume Resistivity (ohm-cm)	1.7 x 10 ¹⁵
Loss Tangent (Tan delta 1MHz)	0.00050
Loss Tangent (Tan delta 1KHz)	0.00013

Base Oil Properties

Flash Point, bulk (COC ASTM D 92 (°C))	320
Flash Point, aerosol (COC ASTM D 92 (°C))	-48

Mechanical Properties

4 Ball Wear (mm)	2.832
Weld Load (kgf)	126

Description

Silicone Grease Compound

Packaging200ml Aerosol
35 ml Luer Lock Syringe
1 Kg Bulk**Order Code**SCO200D
SCO35SL
SCO01K**Shelf Life**36 Months
48 Months
48 Months**Typical Product Applications**

All electrical systems where there is a requirement to prevent ingress of moisture and to protect against corona discharge and airborne contamination. It is particularly useful on high voltage electrical connections, ignition systems and electronic equipment to eliminate electrical tracking. SCO may also be used as a release agent in moulding and casting operations, as a glass stop-cock lubricant or as a cable lubricant prior to the cable being drawn through conduits, harnesses etc.

Revision 3: Jan 2018