

# Technical Data Sheet



<b>PRODUCT DESCRIPTION:</b>	<b>Silicone Grease Compound</b>	<b>DATE:</b>	<b>03/97</b>
<b>PRODUCT CODE:</b>	<b>SCO</b>	<b>PAGES:</b>	<b>2</b>

## PRODUCT DESCRIPTION

**Silicone Grease Compound** is a high quality multi-purpose electrical insulating compound with excellent water and moisture repellent characteristics which does not harden with age and is particularly useful on high voltage electrical connections, ignition systems and electronic equipment to eliminate electrical tracking. **SCO** is 100% Ozone Friendly in all versions.

## PRODUCT USE

All electrical systems where there is a requirement to prevent ingress of moisture, to protect against corona discharge and from airborne contamination. It can be used as a sealing, potting or packing grease for electronic equipment, glands, joints, screws etc., as well as acting as an excellent lubricant at the same time. **Silicone Compound** 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.

## FEATURES

- \* Excellent resistance to water erosion and corrosion from rain, condensation and moisture.
- \* Excellent electrical insulating compound and sealer.
- \* Excellent lubricant with good adhesion and spreading characteristics on dry surfaces of metal, ceramic rubber, PVC and all forms of electrical insulation.
- \* Available in aerosol form for quick, clean and efficient application. Also available in bulk if required.
- \* Chemically inert, odourless and non-toxic with consistency similar to petroleum jelly.
- \* Excellent resistance to tracking and corona discharge.

## TYPICAL PROPERTIES

Meets US Military Specification MIL-I-8660B and DEF STAN 59.10/2.

Colour:	Colourless
Specific Gravity:	1.0 (Bulk), 0.72 (SCO200D)
Penetration	Unworked: 200 Worked: 260

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Electric Strength (BS 2918):		20kV for 1 minute
Volume Resistivity (BS 2782):		$1.7 \times 10^{15}$ Ohms/cm
Loss Tangent (BS 2067)	@ 1 kHz:	0.00013
	@ 1 MHz:	0.00050
Permittivity (BS.2067)	@ 1 kHz:	2.80
	@ 1 MHz:	2.83
Weight Loss (30 hours @ 205°C):		<2.5%
Solubility (Weight Loss) in:		
	Distilled water:	0.2%
	Isopropyl alcohol:	8.0%
	Ethyl alcohol:	3.0%
	Ethylene glycol:	0.2%
	Glycerine:	0.3%
Thermal Conductivity:		$3.8 \times 10^{-4}$ cgs (0.16 W/mK)
Flash Point:	SCO200D	-48°C
	Bulk	300°C
Temperature Range:		-50°C to +220°C
Bleed (30 hours @ 205°C):		3.0%

**PACKAGING**

**ORDER CODE**

200ml Aerosol (100% Ozone Friendly)	SCO200D
35 ml Luer Lock Syringe	SCO35SL
1 Kg Bulk	SCO01K

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