

TECHNICAL DATA SHEET

SGM494 Silicone Grease

Description

This is a water-repellent, work-stable, non-melting, tasteless and odourless silicone grease for electrical insulation purposes and general lubrication of plastic materials.

Key Features

- Work stable after 24 hours at 200°C/392°F
- Non melting even in hot climates
- Low bleed and weight loss
- WRAS approved for potable water

Key Applications

- MOD Def Stan : 68-69/1
- NATO Stock codes: 6850 99 220 2421; 6850 99 224 8408; 6850 99 807 0400

Application

WRAS Approved for potable / drinking water contact.
MOD grade XG250

Use and Cure Information

Typical Applications

It is a very versatile grease that has been used successfully in many applications such as: -

- Sealing electrical systems against water ingress
- Prevention of corona discharge
- Protection of insulation against corona discharge
- Potting of small electronic components
- Lubrication of electric cables through conduits
- Screw threads lubrication to prevent sticking and corrosion
- Packing of mineral fibre glands to prevent sticking
- Laboratory stop-cock lubrication
- Vacuum sealing of ground glass joints

Effect on Materials

This silicone grease has little effect on metals and most plastics. It may, after prolonged contact with plasticised rubbers and plastics, have a slight effect due to plasticiser migration

Health & Safety

Health and Safety

Safety Data Sheets available on request.

Packaging

CHT Greases are available in a variety packaging including bulk containers. Please contact our sales department for more information.

Revision Date 29 Apr 2021
Revision No 1
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Property

Product

Bleed %		<6 %
Color		Translucent
Density	BS ISO 2781	1.00 g/cm³
Max Storage Temperature		40 °C / 104 °F
Max Working Temp		200 °C / 392 °F
Min Working Temp		-50 °C / -58 °F
Penetration (150g Cone)		190 - 250 mm x 10
Rheology		Paste
Silicone Yes/No		Yes
Thermal Conductivity		0.2 W/mK
Water Potable		Yes
Weight Loss %		1.5 %
Worked Penetration (150g Cone)		190 - 310 mm x 10

Electrical Properties

Dielectric Breakdown (kV/mm)		>20 kV
Dielectric Constant	ASTM D-150	2.9
Dielectric Strength (V/mil)		495 V/mil
Dielectric Strength kV/mm	ASTM D-149	>20 kV/mm / 0 V/mil
Dissipation Factor	ASTM D-150	0.0015
Power Factor @1MHz		0.0015
Volume Resistivity (Ohms cm)	ASTM D-257	1E+15 ohms cm

Storage

Shelf Life		24 mths
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The CHT technical service department is available to offer further information and advice and should it be needed to look at modifying current products or custom formulate a new one to meet your specific requirements. Please contact the technical service department.

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