TECHNICAL DATA SHEET



SGM494 Silicone Grease

Property

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.

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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

ASTM D-149

ASTM D-150

ASTM D-257

Test Method

Value

495 V/mil

0.0015

0.0015

>20 kV/mm / 0 V/mil

1E+15 ohms cm

Storage

Dielectric Strength (V/mil)

Dielectric Strength kV/mm

Volume Resistivity (Ohms

Dissipation Factor

Power Factor @1MHz

Shelf Life 24 mths

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