

## 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

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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  
Download Date 19 May 2024

### Property

#### Product

Bleed %

Color

Density

Max Storage Temperature

Max Working Temp

Min Working Temp

Penetration (150g Cone)

Rheology

Silicone Yes/No

Thermal Conductivity

Water Potable

Weight Loss %

Worked Penetration (150g Cone)

#### Electrical Properties

Dielectric Breakdown (kV/mm)

Dielectric Constant

Dielectric Strength (V/mil)

Dielectric Strength kV/mm

Dissipation Factor

Power Factor @1MHz

Volume Resistivity (Ohms cm)

#### Storage

Shelf Life

### Test Method

BS ISO 2781

ASTM D-150

ASTM D-149

ASTM D-150

ASTM D-257

### Value

<6 %

Translucent

1.00 g/cm<sup>3</sup>

40 °C / 104 °F

200 °C / 392 °F

-50 °C / -58 °F

190 - 250 mm x 10

Paste

Yes

0.2 W/mK

Yes

1.5 %

190 - 310 mm x 10

>20 kV

2.9

495 V/mil

>20 kV/mm / 0 V/mil

0.0015

0.0015

1E+15 ohms cm

24 mths

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