

## SGM494 Electrically Insulating Silicone Grease

### Introduction

**SGM494** is water-repellent, work-stable, non-melting, tasteless and odourless silicone grease for electrical insulation purposes; it may also be used for potable water supplies.

### Key Features

- Work stable after 24 hours at 200°C
- Good low load lubrication
- Low bleed and weight loss
- Low level of toxicity

### 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

**SGM494** 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.

### General Characteristics

The following are typical values for the product and should not be taken as specification limits.

Appearance	<b>Paste</b>
Colour	<b>Translucent</b>
Specific Gravity	<b>1.00</b>
Unworked Penetration (Cone weight 150g) 1/10th mm	<b>190 – 250</b>
Worked Penetration (Cone weight 150g) 1/10th mm	<b>190 – 300</b>

Note: All penetration values have been measured according to Petroleum Standard IP50/69 or ASTM-D217-68

Water Potable	<b>Yes</b>
Weight Loss, 30 hours / 200°C, %	<b>1.5</b>
Bleed, 30 hours / 200°C, %	<b>&lt;6</b>
Minimum working temperature, °C	<b>-50</b>
Maximum working temperature, °C	<b>200</b>

### Electrical Properties

Dielectric Strength at 1MHz, kV/mm	<b>19.5</b>
Dielectric Constant at 1MHz (BS 2067)	<b>2.9</b>
Volume Resistivity, Ω.cm (BS 6233)	<b>1.0E+15</b>
Power Factor at 1MHz (BS 2067)	<b>1.5E-3</b>
Dielectric Breakdown Voltage, kV	<b>&gt;20</b>

### Health and Safety

Detailed advice for the safe handling and disposal is given in the individual product Material Safety Data Sheets, available on request.

### Packages

SGM494 is supplied in non-returnable packages contact the sales office for details

### Storage and Shelf Life

SGM494 grease should be stored in its original sealed containers to prevent contamination of the product. If stored in its original sealed containers it is virtually unaffected by storage temperatures and will be stable under such conditions for 24 months.

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