

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 200⁰C
- 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	Paste
Colour	Translucent
Specific Gravity	1.00
Unworked Penetration	
(Cone weight 150g) 1/10th mm	190 – 250
Worked Penetration	
(Cone weight 150g) 1/10th mm	190 – 300

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

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

Electrical Properties

Dielectric Strength at 1MHz, kV/mm19.5Dielectric Constant at 1MHz (BS 2067)2.9Volume Resistivity, Ω.cm(BS 6233)Power Factor at 1MHz (BS 2067)1.5E-3Dielectric Breakdown Voltage, kV>20

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.

Revision Date: 16/10/2013

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