

## SGM494 Silicone Grease

### Introduction

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
- Non-melting
- Low bleed and weight loss
- WRAS approved

### 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 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 : 26/02/2019

Download Date : 07/11/2019

Property	Test Method	Value
<b>At 23+/-2 °C</b>		
Appearance		<b>Translucent paste</b>
Bleed %		<b>&lt;6 %</b>
Colour		<b>Translucent</b>
Max Working Temp + °C	AFS_1540B	<b>200 °C</b>
Min Working Temp - °C		<b>-50 °C</b>
Penetration (cone weight g) mm/10		<b>190-250</b>
Rheology		<b>Paste</b>
SG	BS ISO 2781	<b>1</b>
Silicone Yes/No		<b>Yes</b>
Water Potable		<b>Yes</b>
Weight Loss %		<b>1.5 %</b>
Worked Penetration (cone weight g) mm/10		<b>190-310</b>
<b>Storage</b>		
Max storage temperature °C		<b>40 °C</b>
Shelf life		<b>24 mths</b>
<b>Uncured product</b>		
Cure Type		<b>N/A</b>
<b>Electrical properties</b>		
Dielectric Breakdown Voltage kV		<b>&gt;20 kV</b>
Dielectric Constant @ 1kHz	ASTM D-150	<b>2.9</b>
Dielectric Strength kV/mm	ASTM D-149	<b>19.5 kV/mm</b>
Power Factor @1MHz		<b>0.0015</b>
Volume Resistivity ohms cm	ASTM D-257	<b>1.0E+15 ohms cm</b>

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