

# TECHNICAL DATA SHEET

## 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

### 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      29 Apr 2021  
Revision No        1  
Download Date     25 Feb 2022

### Property

#### Product

Bleed %		<6 %
Color		Translucent
Density	BS ISO 2781	1.00 g/cm <sup>3</sup>
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
Dielectric Strength (V/mil)		495 V/mil
Dielectric Strength kV/mm	ASTM D-149	>20 kV/mm / 0 V/mil
Dissipation Factor	ASTM D-150	0.0015
Power Factor @1MHz		0.0015
Volume Resistivity (Ohms cm)	ASTM D-257	1E+15 ohms cm

#### Storage

Shelf Life	24 mths
------------	---------

The content set out in the technical data sheet does not contain information upon which you should rely. It is provided for general information purposes only and does not constitute a product specification. You must obtain professional or specialist advice before taking any action based on the information provided in the technical data sheet.

CHT make reasonable efforts to ensure that information set out in the technical data sheet is complete, accurate, and up-to-date. CHT do not, however, make any representations, warranties or guarantees (whether express or implied) that information set out in the technical data sheet is complete, accurate, or up-to-date or that the product will be suitable for your requirements. You should carry out your own testing to determine the applicability of such information and whether the product will be suitable. CHT reserve the right to modify the technical data sheet at any time.

The CHT technical service department is available to offer further information and advice and should it be needed to look at modifying current products or custom formulate a new one to meet your specific requirements. Please contact the technical service department.

**CHT Germany GmbH:** Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany  
Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com / www.cht-silicones.com