

## SGM494 Silicone Grease

Description	Property	Test Method	Value
This is a water-repellent, work-stable, non-melting, tasteless and odourless silicone grease for electrical insulation purposes and general lubrication of plastic materials.	<b>Product</b>		
<b>Key Features</b>	Bleed %		<6 %
<ul style="list-style-type: none"> <li>Work stable after 24 hours at 200°C/392°F</li> <li>Non melting even in hot climates</li> <li>Low bleed and weight loss</li> <li>WRAS approved for potable water</li> </ul>	Color		Translucent
<b>Key Applications</b>	Density	BS ISO 2781	1.00 g/cm <sup>3</sup>
<ul style="list-style-type: none"> <li>MOD Def Stan : 68-69/1</li> <li>NATO Stock codes: 6850 99 220 2421; 6850 99 224 8408; 6850 99 807 0400</li> </ul>	Max Storage Temperature		40 °C / 104 °F
<b>Application</b>	Max Working Temp		200 °C / 392 °F
WRAS Approved for potable / drinking water contact. MOD grade XG250	Min Working Temp		-50 °C / -58 °F
<b>Use and Cure Information</b>	Penetration (150g Cone)		190 - 250 mm x 10
<b>Typical Applications</b>	Rheology		Paste
It is a very versatile grease that has been used successfully in many applications such as: -	Silicone Yes/No		Yes
<ul style="list-style-type: none"> <li>Sealing electrical systems against water ingress</li> <li>Prevention of corona discharge</li> <li>Protection of insulation against corona discharge</li> <li>Potting of small electronic components</li> <li>Lubrication of electric cables through conduits</li> <li>Screw threads lubrication to prevent sticking and corrosion</li> <li>Packing of mineral fibre glands to prevent sticking</li> <li>Laboratory stop-cock lubrication</li> <li>Vacuum sealing of ground glass joints</li> </ul>	Thermal Conductivity		0.2 W/mK
<b>Effect on Materials</b>	Water Potable		Yes
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	Weight Loss %		1.5 %
<b>Health &amp; Safety</b>	Worked Penetration (150g Cone)		190 - 310 mm x 10
<b>Health and Safety</b>	<b>Electrical Properties</b>		
Safety Data Sheets available on request.	Dielectric Breakdown (kV/mm)		>20 kV
<b>Packaging</b>	Dielectric Constant	ASTM D-150	2.9
CHT Greases are available in a variety packaging including bulk containers. Please contact our sales department for more information.	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
	<b>Storage</b>		
	Shelf Life		24 mths
Revision Date	29 Apr 2021		
Revision No	1		
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