TECHNICAL DATA SHEET



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.	Product Bleed % Color		<6 % Translucent
 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 	Density Max Storage Temperature Max Working Temp Min Working Temp	BS ISO 2781	1.00 g/cm3 40 °C / 104 °F 200 °C / 392 °F -50 °C / -58 °F
 Key Applications MOD Def Stan : 68-69/1 NATO Stock codes: 6850 99 220 2421; 6850 99 224 8408; 6850 99 807 0400 	Penetration (150g Cone) Rheology Silicone Yes/No		190 - 250 mm x 10 Paste Yes
Application WRAS Approved for potable / drinking water contact. MOD grade XG250 Use and Cure Information	Thermal Conductivity Water Potable Weight Loss % Worked Penetration (150g		0.2 W/mK Yes 1.5 % 190 - 310 mm x 10
Typical Applications	Cone)		190 - 310 mm x 10
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	Electrical Properties Dielectric Breakdown (kV/mm)		>20 kV
	Dielectric Constant Dielectric Strength (V/mil) Dielectric Strength kV/mm Dissipation Factor Power Factor @1MHz	ASTM D-150 ASTM D-149 ASTM D-150	2.9 495 V/mil >20 kV/mm / 0 V/mil 0.0015 0.0015
 Vacuum sealing of ground glass joints Effect on Materials 	Volume Resistivity (Ohms cm)	ASTM D-257	1E+15 ohms cm
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	Storage Shelf Life		24 mths

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.

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