

SGM494

Characterization

This is a water-repellent, work-stable, non-melting, tasteless and odourless silicone grease for electrical insulation purposes and general lubrication of plastic materials.

Technical Data

	SMG494		
	At 23°C +/- 2°C		
Appearance	Translucent paste		
Colour	Translucent		
Cure Type	N/A		
Bleed	<6	%	
Penetration (cone weight g)	190-250	mm/10	
Worked Penetration (cone weight g)	190-310	mm/10	
Rheology	Paste		
SG	1		BS ISO 2781
Silicone (yes/no)	Yes		
Water Potable	Yes		
Weight Loss	1,5	%	
Working Temp.	-50 to 200	°C	AFS-1540B
	Electrical properties		
Dielectric Strength	19.5	kV/mm	ASTM D-149
Dielectric Breakdown Voltage	>20	kV	
Dielectric constant at 1 kHz	2.9		ASTM D-150
Power Factor at 1kHz	0.0015		
Volume Resistivity	1.0E+15	ohm*cm	ASTM D-257

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Storability / Storage

With a proper storage approx. 24 months if stored properly max. at 40 °C and protected from frost in a dry place in closed original containers.

Properties

- Work-stable after 24 hours at 200 °C
- Non-melting
- Low bleed and weight loss
- WRAS approved

Application Technique

Mixing

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.

It is absolutely important to check the compatibility in preliminary tests if unknown substrates are used.

Safety

Please observe our EC safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the EC safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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