

## SGM496 White Silicone Grease HV Insulating

### Introduction

This is a water repellent, non-melting silicone grease developed to meet the special requirement of High Voltage insulator coating

### Key Features

- Excellent work stability
- Non-melting even in hot climates
- Pink grease available giving visible indicator
- Excellent water repellence

### Use and Cure Information

#### Typical Applications

Humidity and industrial/natural contaminants have long been a cause of leakages and flashovers on HV insulators. Experience has shown that a layer of silicone grease can eliminate this problem, not only by shedding water, but also by encapsulating any contaminating particles, thus preserving an unbroken dielectric surface at all times.

#### How to Use

May be applied as received by brushing onto insulators this will give a coating of approximately 0.5mm on a horizontal surface. If preferred, the product can be applied as 30% dispersion in organic solvent by spraying which will give a coating of approximately 0.25mm in a single pass without sagging or runs.

After allowing a short time for the solvent to evaporate, subsequent coats can be applied; insulators should be cleaned before application. In all cases the insulator should be polished with a clean rag charged with grease to force the grease into intimate contact with the surface; thus, ensuring subsequent layers; however, they are applied; are well bound to the surface.

The grease can also be with a pink-pigment to facilitate the application of even layers; as it contrasts with the colour of the insulator surface. This colouring can also be seen from a distance, which helps to indicate re-application; after time; without operatives having to climb up to view the insulator

### 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.

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Property	Test Method	Value
<b>At 23+/-2 °C</b>		
Appearance		<b>White Paste</b>
Bleed %		<b>0.1 %</b>
Colour		<b>White</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>195 10E-1</b>
Rheology		<b>Paste</b>
SG	BS ISO 2781	<b>1</b>
Silicone Yes/No		<b>Yes</b>
Water Potable		<b>No</b>
Weight Loss %		<b>&lt;0.50 %</b>
Worked Penetration (cone weight g) mm/10		<b>213 10E-1</b>
<b>Cured product</b>		
Thermal Conductivity W/mK		<b>0.20 W/mK</b>
<b>Electrical properties</b>		
Dielectric Breakdown Voltage kV		<b>26 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>
Volume Resistivity ohms cm	ASTM D-257	<b>1.0E+15 ohms cm</b>
<b>Storage</b>		
Max storage temperature °C		<b>40 °C</b>
Min storage temperature °C		<b>5 °C</b>
Shelf life		<b>24 mths</b>

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