

## 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.

Revision Date : 06/02/2018

Download Date : 29/10/2020

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>

The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is to be construed as warranty or representation. Users should make their own test to determine the applicability of such information or the suitability of any products for their own particular purposes. Statements concerning the user of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is to be assumed. All values are typical and should not be accepted as a specification