

## SGM496 (M496) HV Insulator Grease

### Introduction

SGM496 is water repellent, non-melting silicone grease developed to meet the special requirement of High Voltage insulator coating.

### Key Features

- Excellent work stability
- Can be used from  $-50^{\circ}\text{C}$  to  $+200^{\circ}\text{C}$
- Widely approved
- Excellent water repellence
- Non Melting even in hot climates
- Non corrosive to metals
- Pink grease available giving visible indicator of presence of product

### Applications

Humidity and industrial/natural contaminants have long been a cause of leakages and flashovers on HV insulators. Experience has show 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 SGM496 to force the grease into intimate contact with the surface; thus ensuring subsequent layers; however they are applied; are well bound to the surface.

SGM496 is also available in a pink-pigmented form to facilitate the application of even layer; 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.

The information and recommendations in this publication are to the best of our knowledge reliable. However nothing herein is to be construed as a warranty or representation. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purposes. Statements concerning the use 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.

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Property	Test Method	Value
Colour:		White or pink Paste
Appearance:		Paste
Penetration:	BS 2000 Part 50	$195 \text{ mm} \times 10^{-1}$ $213 \text{ mm} \times 10^{-1}$
Worked Penetration:		
Relative Density:	BS 3712 Part 1	1.00
Weight Loss:	FED-STD-791	<0.5 %
Bleed:	FED-STD-791	0.10 %
Thermal Conductivity:		0.20 W/mK

### Electrical Properties

Volume Resistivity:	ASTM D-257	$1 \times 10^{15} \Omega \cdot \text{cm}$
Dielectric Strength:	ASTM D-149	19.5 kV/mm
Dielectric Constant at 1MHz:	ASTM D-150	2.9
Power Factor at 1 MHz:		$1.5 \times 10^{-3}$
Dielectric Breakdown Voltage		26 kV

All values are typical and should not be accepted as a specification.

**Health and Safety** – Health and safety data sheets are available on request.

**Packages** – 1kg, 5kg and 20 kg non-returnable containers. Other bulk containers can be arranged.

**Storage and Shelf Life** – Expected to be 2 years in unopened containers when stored between 5 and  $40^{\circ}\text{C}$ .

Revision Date: 16/10/2013