

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
At 23+/-2 °C		
Appearance		White Paste
Bleed %		0.1 %
Colour		White
Max Working Temp + °C	AFS_1540B	200 °C
Min Working Temp - °C		-50 °C
Penetration (cone weight g) mm/10		195 10E-1
Rheology		Paste
SG	BS ISO 2781	1
Silicone Yes/No		Yes
Water Potable		No
Weight Loss %		<0.50 %
Worked Penetration (cone weight g) mm/10		213 10E-1
Cured product		
Thermal Conductivity W/mK		0.20 W/mK
Electrical properties		
Dielectric Breakdown Voltage kV		26 kV
Dielectric Constant @ 1kHz	ASTM D-150	2.9
Dielectric Strength kV/mm	ASTM D-149	19.5 kV/mm
Volume Resistivity ohms cm	ASTM D-257	1.0E+15 ohms cm
Storage		
Max storage temperature °C		40 °C
Min storage temperature °C		5 °C
Shelf life		24 mths

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