

ESP804 HV Insulator Grease

Introduction

ESP804 is a water repellent, non-melting silicone grease developed to meet the special requirement of High Voltage insulator coating.

Key Features

- Can be used from -50°C to +200°C
- 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 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

ESP804 is a product intended for use with spraying equipment.

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 ESP804 to force the grease into intimate contact with the surface; thus ensuring subsequent layers; however they are applied; are well bound to the surface.

ESP804 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.

Property	Test Method	Value
Colour:		White or Pink
Appearance:		Viscous Liquid
Relative Density:	BS 3712 Part 1	0.91
Thermal Conductivity:		0.20 W/mK
Viscosity		3800

Electrical Properties

Volume Resistivity:	ASTM D-257	1x10 ¹⁵ Ω.cm
Dielectric Strength:	ASTM D-149	19.5 kV/mm
Dielectric Constant at 1MHz:	ASTM D-150	2.9
Power Factor at 1 MHz:		1.5x10 ⁻³

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°C.

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