

CSL-890 Technical Data Sheet

Sprayable High Voltage Insulator Compound

1. PRODUCT NAME

CSL-890 Sprayable High Voltage Insulator Compound

2. FEATURES

- Non-curing compound
- Easy to apply by spray
- Not affected by UV light, temperature, normal chemical environments and ozone
- Supplied ready-to-use with no mixing of chemicals
- Proven to be effective in all types of conditions from salt fog to cement dust

3. PRODUCT DESCRIPTION

CSL-890 silicone compound has been developed for the maintenance of high voltage insulators. Its grease-like formulation gives porcelain insulators long-term resistance to water filming, thereby suppressing leakage current, which is the source of radio and television interference and flashover. When the compound becomes laden with airborne contaminants, its anti-tracking filler system protects against tracking. Its unique formulation resists the sun's ultraviolet rays and ozone produced from electrical discharges. It is easy to apply

and has excellent adhesion. Its white color makes it easy to insure that a uniform and complete coating is applied and also when removal becomes necessary, due to excessive contamination.

4. INSTALLATION

The surface of insulators to be coated must be thoroughly cleaned and dry. In most instances, the insulators need only to be high pressure water washed.

CSL-890 can be sprayed with airless pumps having a compression ratio of at least 26:1. A nozzle size of about 0.5 to 0.6 mm is commonly used. A "hot-stick" spray gun, designed specifically for energized compound application, is often used. Compound applied by spraying can lose considerable thickness due to solvent evaporation and should be compensated accordingly during product application.

5. PACKAGING

CSL-890 is supplied in 3.8 liter (1 US gallon) cans, 19 liter (5 US gallon) pails.

Typical Properties

These values are not intended for use in preparing specifications

As Supplied

Type	Non-curing compound
Appearance	Smooth, white paste
Specific Gravity	1.11
Useable Temperature Range	-60°C to 200°C (-70°F to 390°F)
Dry Arc Resistance (ASTM D495)	233 s.
Dielectric Strength (ASTM D149)	325 V/mil (128 kV/cm)
Volume Resistivity (ASTM D257)	1.0 x 10 ¹³ ohm.cm
Dissipation Factor, at 100 Hz and 1000 Hz (ASTM D150)	0.01, 0.005
Dielectric Constant, at 100 Hz and 1000 Hz (ASTM D150)	4.0, 4.0

6. STORAGE

CSL-890 when stored in original unopened container at or below 32°C (90°F) has an 18 month shelf life from the date of manufacture. Most products however, will last longer if stored in cool dry conditions.

Data is subject to change without notice and it is therefore recommended that this information not be used for specification writing. For additional information on specific applications, contact the manufacturer.

7. SAFETY PRECAUTIONS

For specific information regarding the safe handling of this compound, please refer to the Material Safety Data Sheet available on this product.

8. WARRANTY

CSL Silicones Inc. warrants that its products will meet its specifications. CSL shall in no event be liable for incidental or consequential damages. Except as expressly stipulated, CSL's liability, expressed or implied, is limited to the stated selling price of any defective goods.

Typical Quantities of Silicone Compound Required to Coat Specific Insulators to an Average FINAL Thickness of 1.5 mm

Insulator Type	Compound Required (kg)
Standard Suspension	0.25
34.5 kV Line Post	0.35
34.5 kV Pin-Cap Apparatus	0.60
69 kV Bushing	1.30
230 kV Bushing	7.20

Note: Based on a coverage of 1.5 kg/m²

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