



Tech Data Sheet

Siltech 300HV

HV Insulator Coating Equal to DC3099

Siltech 300HV is a silicone grease compound designed to coat and protect high voltage insulators from arc tracking and flashover that can be the result of contaminant build-up caused by moisture (rain, high humidity, etc), combining with pollens, dirt, salts, etc., on the surface of the insulator. 300HV is formulated using the identical base silicone oils as used in DC3099. 300HV contains a higher content of flame retardant and arc-resistant fillers than other similar products, which are fundamental to providing long term resistance to arcing and flashovers. A minimum of 1/8" coating is desired for 300HV to be most effective. This product is UV resistant and does not harden or crack when exposed to outdoor environments. It remains soft and pliable, which helps trap and engulf contaminants. May be diluted with solvent for spray or paint-on applications (insulators must be de-energized during the application process). 300HV may also be brushed on or hand-applied directly from the container.

Typical Properties

Composition	Color: Primary-Gray Type: Silicone Grease
Characteristics	Non-tracking, water repellent, easy to apply Arc and flashover resistant
Penetration (unworked/worked)	250/250
Specific Gravity @ 25°C	1.3
% Solids	100
Flash Point, closed cup	>157°C (315°F)
Recommended Thickness	62.5-125 mils
Service Temp Range °C (°F)	-40°C-204°C (-40°F-400°F)
Flash Point (closed cup)	>120°C (250°F)
Shelf Life	60 months
Maintenance During Storage	None
Product Weight	10.8lb/Gal (1.29 kg/liter)
Safety & Hazards	Refer to MSDS sheet
Recommended solvents for diluting	Stoddard solvent or Xylene





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Dielectric Properties

Dielectric Strength @50 mils	300 Volts/mil
Dielectric Constant (100Hz/100kHz)	4.65/4.8
Dissipation Factor (100Hz/100kHz)	0.1986/0.1111
Dry Arc Resistance, Burnout	>750 min
Volume Resistivity	1.5×10^{14} ohm-cm

Applications

Substations: (up to 230kV)	Protect the surface conditions and dielectric characteristics of various insulator surfaces including bus insulators, post insulators, transformer and switch-gear equipment bushings and lighting arrestors.
Transmission Systems: (up to 230kV)	Protect ceramic and glass insulator surfaces on string insulators and jumper strings.
Custom or Specialty	AC or DC applications where surfaces may be susceptible to leakage current flows causing damage to the base material or structure.

Packaging & Part Numbers

<u>Packaging</u>	<u>Part Number</u>
1 Gallon pail, white plastic w/handle, est. wt. 10lbs (4.5kg)	300HV/1G-G
5 Gallon pail, white plastic w/handle, est. wt. 40lbs (18.0kg)	300HV/5G-G
55 Gallon drum, est. wt. 400lbs (182kg)	300HV/55G-G

