

## SILICON-350 (Silicone Dielectric and high Vacuum grease)

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### DESCRIPTION

**SILICON-350** is silicone dielectric and high vacuum grease specially formulated non-curing silicone compound that exhibits superior performance in both electrical and vacuum applications. Lubricitous properties facilitate and improve tune-ups.

**SILICON-350** is specially formulated non-curing silicone dioxide compound with special solid lubricants, very high molecular weight dimethyl polysiloxane based material that exhibits superior performance in both electrical and vacuum applications.

**SILICON-350** grease seals, protects, and insulates electrical components and connectors. It is waterproof and provides a barrier against moisture and other contaminants in many types of electrical contact points.

**SILICON-350** grease prevents voltage leakage around any automotive spark plug boots and electrical connectors thereby insuring a strong spark in high energy automotive ignition systems. It also helps reduce the overall leak rate in vacuum applications by filling the spaces of the gland's surfaces and lowering permeation rates of the elastomer. It outperforms in both vacuum and pressure systems.

**SILICON-350** is an extremely stiff, tacky, tenacious compound, translucent white, clean and clear in appearance and exhibits high dielectric strength with excellent water repellency even to seawater.

**SYNTH SILICON-350** is compatible and has excellent lubricant on rubber, plastic and ceramic surfaces, and it also has good high temperature properties, thus preventing fusing of spark plug boots to the spark plug itself.

### APPLICATIONS

Automotive spark plug boots, Electrical insulation, Damping and lubrication of brass components, Electrical assemblies and terminals, Rubber gaskets, Vacuum and Pressurized Systems, Control valves, Flow Meter Bearings, Battery cables, spark plugs and distributor caps, Sealing and insulation, Light bulbs, Cable connections, Terminal strips and disconnects, Stopcock grease, Motorized actuators, Glass to rubber boundaries, Ceramic plug gaskets, Sealing of chemical process equipment, Food processing equipment, Water treating equipment, Sealing of vacuum pressure systems, Plug valves.

### ADVANTAGES & BENEFITS

- High dielectric strength & Heavy consistency
- Seals out moisture & Resistant to thermal degradation
- Low vapor pressure, High resistance to water and chemicals
- Protects electrical components from corrosion, Prevents electrical arcing
- Wide high temperature range, Low volatility & Low outgassing
- High resistance to high and low temperatures
- Compatible with majority of rubber and plastic compounds
- Improves connections, Prevents corrosion & voltage leakage.
- Moisture proof, Resists acid and alkalines.
- Prevents fusing of spark wires to spark plugs boots.
- Ideal for automotive and marine applications.
- Displaces moisture in ignition and electrical systems.
- Maintains its consistency in extreme temperatures.
- Keeps battery terminals corrosion free.

## PROPERTIES

SPECIFICATIONS	TYPICAL VALUE
Color & Appearance	Light gray, Translucent White & Smooth Tacky Paste
Base Oil Type	Silicon Dioxide
Consistency NLGI	2 & 3
Worked Penetration	200 -250
Drop Point	>260
Viscosity @25°C	5000
Specific Gravity @ 25°C (77°F)	1.07
Dielectric Strength (Volts/mil, 50 mil gap):	777
Dielectric loss	$1.2 \times 10^{12}$
Dielectric Resistivity @ 25°C (ohm/cm):	$1 \times 10^{15}$
Dielectric Constant @25°C between 0.5 and 100 kHz:	2.9
Evaporation, % loss 24 hrs. @200°C	0.6%
Bleed, % 24 hrs. @200°C	0.1%
Thermal Conductivity	0.16
Oil Separation, 21 hrs. / 100°C:	0 %
Water Washout:	< 1%
Flash Point:	>572°F (300°C)
Melting Point:	No Melt
Operating Range °C	-40°C to 204°C

### Directions for Use of spark plug boots:

Make sure ignition system is off, remove heavy grease, dirt or oil with a clean rag, Coat inside of spark plug boot with a thin layer of grease, Coat ceramic part of plug, Snap boot onto plug, make sure fit is tight.

### Directions for Use of connectors and battery terminals:

Make sure the ignition system is off, Clean surfaces with appropriate cleaner such as Brake and Parts Cleaner or Battery Cleaner, Coat both parts with grease, Reassemble.

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