



## S-736 Silicone Compound

2015-10-13 M

S-736 is a polydimethylsiloxane oil thickened with amorphous fumed silica. Formulated to conform with the specifications outlined in MIL-S-8660 C, S-736 is an excellent water barrier and electric barrier (insulator) with superior corrosion protection properties.

### Applications:

S-736 is a general purpose silicone compound for use as a water repellent coating to prevent corrosion, especially in critical applications that require good dielectric properties. S-736 offers superior corrosion protection to many metal substrates. Proven during many years compatibility with a wide range of plastics and elastomeric materials.

Confirm to requirement of 21 CFR section 178.3570 "Lubricants for Incidental Food contact"

### Product specifications:

Physical properties	Test Methods	S-736 Performance
Appearance	Visuel	Translucent paste
Penetration worked (60x)	ASTM D 217	200-310
Bleed	200 °C / 30 hours	8,0 % maximum
Evaporation	200°C / 30 hours	2.0 % maximum
Specific gravity		1,02 – 1,06

### Typical properties:

Water washout	ASTM D 1264	0,86%
Volume resistivity	ASTM D 257	1,1 x 10-15 Ohm-cm
Dissipation Factor	ASTM D 150	0,0010
Dielectric constant	ASTM D 150	2,5@1 Mhz.

### Features:

Wide temperature range  $\pm 55^{\circ}\text{C}$  til  $+ 204^{\circ}\text{C}$   
Hydrolytically stable  
Low toxicity  
Oxidation resistant  
Radiation resistant  
Water repellent  
Excellent dielectric  
Chemically inactive  
Non corrosive  
Good adherence  
Meets Mil-S-8660 B & C

### Applications:

Automotive and aircraft:  
Ignition, Electrical barrier  
Moisture barrier, Thermal conduction  
Rubber and plastic lubrication, O-ring lube  
Power generation:  
Electrical insulation, sealing against humidity  
o-ring lube,  
Military specification MIL-S-8660 B & C:  
Battery terminals  
Switch gears  
General Electronic industries

### Restrictions:

**Do not use in or around highly oxidative chemicals such as liquid oxygen, chlorines or peroxides.**

**Not recommended for surfaces to be painted. Not for roller bearings, use G-322/ 351 instead**  
Standard Stock: 50 gram tubes, 400 Gr. Cartridges, 1 Kg & 5 Kg plastic pails & 20 Kg pails