

# NS-113-G

## Low Arc Debris Electrical Contact Lubricant

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NS-113-G is a non-hydrocarbon electrical contact lubricant designed to prevent contact wear and corrosion for contacts with higher than normal mechanical loading. This product has outstanding performance in applications requiring low arc-switching debris, durability, and lubricating qualities over a wide temperature range of -40°F to +275°F. This product is also an excellent friction reducing and anti-stick lubricant for EPDM, Nitrile (Buna N) and silicone elastomers. May be used on switches, potentiometers, lightly loaded gear-trains, etc.

### Characteristics:

For use in high contact force sliding switches  
Wide Operating temperature range -40°F to +275°F  
Cu and Ag corrosion protection  
Low residue in arc-switching  
Enhanced oxidation stability  
Lubricant for EPDM, Nitrile (Buna N) and silicone elastomers

### Typical Properties

Color	Light Tan
Thickener	Li Soap
NLGI grade	2
Penetration, ASTM D217, worked, 60 DS	279
Dropping point, ASTM D2265, °F(°C)	392(200)
Copper corrosion, ASTM D4048, 24 hrs. @ 100°C	1a
Evaporation Loss, ASTM D972, 22 hrs.@ 210°F, %	.9
Low Temp. Torque, ASTM D1478, start @ -40°C,g-cm(N-m)	4572(.448)
Low Temp. Torque, ASTM D1478, 10 min @ -40°C,g-cm(N-m)	1858(.182)
Low Temp. Torque, ASTM D1478, 1 hr. @ -40°C,g-cm(N-m)	1268(.124)

### Typical Base Fluid Properties

Base fluid	PAG
Viscosity, ASTM D445 @ 40°C, cSt	225
Viscosity, ASTM D445 @ 100°C, cSt	37
Flash point, ASTM D92, °C (°F)	227(440)

### Material Compatibilities:

Not for use with ABS, polycarbonate, polyester, PPO, or PVC plastics. Not for use on buna S, butyl, or neoprene elastomers. Check with material manufacturer or Syn-Tech concerning compatibility.

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