

# NS-396-G

## Mechanical/Electrical Grease

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A synthetic grease designed for use as a mechanical lubricant as well as an electrical contact interface lubricant. This product is suitable for low current (milliamp) and high current applications requiring low arc-switching debris, durability, and non-ferrous (e.g. Copper, Brass, Silver) corrosion protection over a range of -40°C to +149°C (-40°F to +300°F). NS-396-G exhibits excellent mechanical stability and low fluid migration, with low evaporation at high temperatures. Lower mechanical friction and improved anti-wear at higher temperatures is also exhibited. May be used in switches, small gearboxes, wiper motors, cables and other similar devices.

This product does not contain silicone fluid.

### Characteristics:

- Wide temperature range -40°C to +149°C (-40°F to +300°F)
- Excellent Cu & Ag corrosion protection in humidity & dry situations
- Used on low milliamp and arc-switching sliding contacts
- Very high mechanical stability and low migration
- Extremely low evaporation rate

### Typical Properties

Color	Cream
Thickener	Li Soap
Penetration, ASTM D1403, worked, 60 Ds	295
Dropping point, ASTM D2265, °C, min	200
Oil Separation, ASTM D6184-98, 24 hrs. @ 212°F, %	6.5
Bomb Oxidation, ASTM D942, 100 hrs, 99°C, psi	1
Evaporation Loss, ASTM D972, 22 hrs., 100°C, %	0.2
Copper corrosion, ASTM D4048, 24 hrs. @ 100°C	1b
Specific gravity, 60/60°F	0.83

### Typical Base Fluid Properties

Base fluid	PAO
Viscosity, ASTM D445 @ 40°C, cSt	69
Viscosity, ASTM D445 @ 100°C, cSt	10.6
Viscosity Index Extended, ASTM D2270	141
Flash point, ASTM D92, °C	260

### Material Compatibilities:

Compatible with most engineering plastics including ABS and polycarbonate. Not for use with Buna S, Butyl, EPDM, EPR, or natural rubber elastomers. Check with material manufacturer or Syn-Tech concerning compatibility.

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