

# NS-1822-G

## Multi-purpose Aircraft Bearing and Gear Grease

NS-1822-G was formulated as a multi-purpose aircraft airframe grease for highly loaded bearings, gears and actuator screws. A low viscosity synthetic ester base fluid and a non-melting thickener system enable excellent low-temperature mobility and pumpability providing very low starting and running torque values. Good resistance to moisture as well as enhanced protection against both ferrous and non-ferrous metal rust and corrosion make this product a natural for use in marine environments.

NS-1822-G is a clay thickened grease approved under MIL-PRF-23827C Type II. NS-1822-G should not be mixed with soap based greases approved under MIL-PRF-23827C Type I

Characteristics:

- Good load carrying capability
- Excellent oxidation stability
- Non-melting clay thickener
- Operating temperature range of -73°C to +149°C.

Typical Properties

Color	Tan
Thickener	Clay
NLGI grade	2
Penetration, ASTM D217, worked, 60 DS	285
Dropping point, ASTM D2265, °C	>260
Oil Separation, ASTM D6184, 30 hrs. @ 100°C, %	3
Bomb Oxidation, ASTM D942, 500 hrs, 99°C, kPa (psi)	13.8 (2)
Evaporation Loss, ASTM D2595, 100°C @ 22 hrs.,%	1
Copper corrosion, ASTM D4048, 24 hrs. @ 100°C	1b
Rust Prevention, ASTM 1743	Pass
Water Washout, ASTM D1264, 38°C, %	2
High Temp Bearing Performance, ASTM D3336 121°C, Hrs.	>2473
Load Wear Index, ASTM D2596, Kgf.	55
Gear Wear, FED-STD 791 335.3, 2.3 kg, mg/1000 cycles	-0.2
Gear Wear, FED-STD 791 335.3, 4.5 kg, mg/1000 cycles	-1.0
Low Temp. Torque, ASTM D1478, start @ -73°C,g-cm(N-m)	3569 (0.35)
Low Temp. Torque, ASTM D1478, 1 hr. @ -73°C,g-cm(N-m)	510 (0.05)

Typical Base Fluid Properties

Base fluid	Ester
Viscosity, ASTM D445 @ 40°C, cSt	10.7
Viscosity, ASTM D445 @ 100°C, cSt	3.0
Pour point, ASTM D97, °C	-72
Flash point, ASTM D92, °C	220

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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