

HIGH PERFORMANCE GENERAL ARTILLERY GREASE

NATO CODE G-403

DESCRIPTION

NYCO GREASE GN 145 is a NLGI 2 grease, based on a blend of poly-alpha-olefin and mineral oil thickened with a lithium complex soap. It is fortified with anti-corrosion, antioxidant and anti-wear additives.

APPLICATIONS

NYCO GREASE GN 145 is a high performance grease designed to lubricate bearings, pins and sliding parts in military automotive equipment (trucks, tanks, artillery guns, etc.). It is often referred as General Artillery Grease (GAA). It exhibits strong anti-corrosion and anti-wear properties to protect the lubricated parts for extended period of time. Nyco Grease GN 145 resists very well to water wash-out – the primary cause of bearing failures of wheel bearings.

The high-melting lithium complex thickener also enables NYCO GREASE GN 145 to withstand high temperature without melting or softening.

NYCO GREASE GN 145 meets the stringent requirements of MIL-G-10924F and offer a much higher performance level compared with standard GAA greases based on mineral oil and lithium soap (MIL-G-10924D).



SPECIFICATIONS * / OEM's & Airframers reference

- Meets MIL-G-10924 F

* **Meets:** The product complies with all the requirements of the specification and has not been formally approved or approval is in progress or the specification is obsolete.

| CHARACTERISTIC | UNIT | TYPICAL RESULT | MIL-G-10924 F LIMIT | TEST METHOD |
|--|---------|-----------------------------------|---|-------------|
| Appearance | -- | homogeneous, smooth, beige grease | Homogeneous smooth grease- | visual |
| Dropping Point | °C | 274 | min. 220 | ASTM D2265 |
| Worked Penetrability after 60 strokes after 100000 strokes P100000-P60 change after 100000 strokes with 10% water P100000+water – P60 | 1/10 mm | 281 323 42 333 52 | 265 to 295 - -25 to +60 - 25 to +60 | ASTM D 217 |
| Oil Separation, 30h at 100°C | % w | 4.0 | max. 5 | ASTM D 1742 |
| Copper Corrosion, 24 h at 100°C | -- | 1a | max. 1b | ASTM D4048 |
| Oxidation Stability at 100°C (100h / 500h) | kPa | 9 / 35 | max. 83 / max 172 | ASTM D 942 |
| Evaporation Loss, 22 h at 100°C | % w | 0.4 | max. 3.0 | ASTM D 972 |
| Steel on steel wear, 1h at 392 N | mm | 0.5 | max. 0.6 | ASTM D 2266 |
| Load Carrying Capacity (LWI) | daN | 39.5 | min. 30.0 | ASTM D 2596 |
| Torque at -54°C (starting / 5 min) | Nm | 2.66 / 0.04 | max 7.00 / max 5.00 | ASTM D 4693 |
| Roll Stability, Penetrability change | 1/10 mm | +37 | -25 to +60 | ASTM D 1831 |
| Bearing Corrosion Test, with NaCl 1 % | -- | pass | pass | ASTM D 1743 |
| Bearing Life Performance at 160°C | h | 190 | min. 100 | ASTM D 3527 |
| Elastomer Compatibility NBR-L CR | % vol | +7.6 +21 | report | ASTM D 4289 |

The values above are typical values. They do not constitute any contractual commitment.

Sales specifications are available on request. The present technical data sheet replaces all the previous editions.