# NYCO GREASE GN 05

TECHNICAL DATA SHEET

## HEAVY DUTY AIRCRAFT GREASE

## NATO CODE G-359

## DESCRIPTION

Nyco Grease GN 05 is a NLGI 2 grease based on a high viscosity mineral oil thickened by clay. It has a good resistance to water wash out and excellent load carrying capacity. Its typical operating temperature range is from -18°C to + 149°C.

## APPLICATIONS

- Heavy duty wheel bearing
- Wheels
- Starter magnetos, generators
- Military automotive components (truck electric retarder TELMA)

PS: Nyco Grease GN 05 shall not be used at temperature below -15°C without a warm-up period at idle/low-speed to allow the grease to soften and properly circulate into the bearing parts.

Can be technically replaced by **Nyco Grease GN 22 (MIL-PRF-81322)** or **Nyco Grease GN 3058 (SAE-AMS-3058)**.

## SPECIFICATIONS * / OEM's & Airframers reference

- Meets MIL-G-3545 C (obsolete)
- Meets AIR 4205/B (obsolete)
- Listed in Airbus CML 03FBB1
- Listed in ATR CML 04-001
- Listed in Airbus Helicopters CM153

* **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requirements of the specification and has not been formally approved or approval is in progress or the specification is obsolete.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 | AIR 4205/B LIMIT | TEST METHOD |
|---|---|---|---|---|
| **Appearance** | - | conform | smooth, homogeneous, brown paste | visual |
| **Dropping Point** | °C | 270 | min. 177 | ASTM D566 |
| **Penetrability:**<br>**Unworked**<br>**Worked**<br>**after 60 strokes**<br>**after 100 000 strokes** | 1/10 mm | <br>254<br><br>284<br>350 | <br>min. 230<br><br>250 to 300<br>max. 360 | ASTM D217<br><br><br><br>FTM-S-791-313 |
| **Evaporation Loss, 22h at 100°C** | % w | 0.4 | max. 2.0 | ASTM D972 |
| **Oil Separation, 30 h at 100°C** | % w | 0.8 | max. 5.0 | ASTM D6184 |
| **Copper Corrosion, 24 h at 100°C**<br>**Appearance of the strip**<br>**Appearance of the grease** | - | <br>1a<br>conform | <br>AIR 4205/B<br>AIR 4205/B | ASTM D4048 |
| **Torque at -18°C (starting / 1h)** | Nm | 0.3 / 0.05 | max. 1.0 / max. 0.1 | ASTM D1478 |
| **Water Washout at 40°C** | % w | 2 | max. 10 | ASTM D1264 |
| **Bearing Performance at 149°C** | h | 860 | min. 600 | ASTM D3336 |

*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.*

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