Nyco Grease GN 46

PETROLEUM AIRCRAFT GREASE FOR OSCILLATING BEARINGS

G-366 – MIL-G-25537 C Amdt 1 – DEF STAN 91-51 Iss. 2, XG-284

Description

Nyco Grease GN 46 is a mineral oil based, calcium soap thickened grease with a 13 cSt viscosity at 40°C.

Advantages

- **Outstanding protection against fretting wear**
- **Anti-moisture corrosion**

Application

Nyco Grease GN 46 is a multipurpose aircraft grease designed to provide good lubrication in bearings and splines with small or no rotation and/or submitted to vibrations (good protection against "fretting wear").

It is particularly suitable for lubrication of helicopters main and tail rotor bearings and splines. Its operating temperature range is –54°C to +75°C (maximum +90°C peak temperature).

Characteristic	Unit	Result	Limit*	Test method
- Appearance	-	conform	homogeneous smooth paste	visual
- Dropping point	°C	147	min. 138 min. 140 **	ASTM D 566 / IP 396
- Penetration Unworked Worked After 60 strokes Worked stability, 10 000 strokes	1/10 mm	 269 271 303	 min. 200 265 to 305 265 – 375 **	 ASTM D 217 / IP 50 ASTM D 217 / IP 50 FTM-S-791-313
- Working stability in the presence of 10 % water (Variation of penetration)	1/10 mm	+28	max. 70	FTM-S-791-313 / DEF STAN 05-50 Part 63
- Oil separation (30 h @ 100°C)	%	2.3	max. 5.0	ASTMD 6184 / DEF STAN 05-50 Part 9
- Evaporation loss (22 h @ 100°C)	%	6.4	max. 7.0	ASTM D 972 / IP 183
- Copper corrosion (24 h @ 100°C) Appearance of the strip Copper strip rating	-	 conform conform	 No pitting or etching max 1b	ASTM D 4048 / IP 112 Rating as per IP 154
- Bomb Oxidation Stability @ 99°C pressure drop after 100 h pressure drop after 500 h	kPa	 21 91	 max. 35 max. 150	ASTM D 942 / IP 142
- Rust preventive properties	rating	Pass	no rusting	ASTM D 1743
- Fretting wear protection	mg	0.9	max. 5.0	ASTM D 4170
- Low Temperature torque @ –54°C starting torque running torque after 60 min	 N.m N.m	 0.118 0.034	 max 0.300 max 0.075	IP 186
- Low Temperature torque @ –55°C ** starting torque running torque after 60 min	 N.m N.m	 1.23 0.08	 ** max 1.47 max 0.15	ASTM D 1478
Storage stability (6 months @ 40°C) Unworked penetration Worked penetration	1/10 mm	 254 291	 min. 200 265 - 305	FTM-S-791-3467 / DEF STAN 05-50 Part 33

* Specification DEF-STAN 91-51 Iss.2 ** Specification MIL-G-35537C

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.

TGN46-4E3a

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