Nyco Grease GN 17

AIRCRAFT SYNTHETIC GREASE WITH SOLID LUBRIFICANT

G-353 – XG-276 – DCSEA 353/A (ex-AIR 4217)
MIL-G-21164 D – DEF-STAN 91-57 Iss.2

Description

Nyco Grease GN 17 is a soft NLGI 2 grease, based on a synthetic diester oil thickened with a lithium soap. It is fortified with anti-corrosion, antioxidant and anti-wear additives. It also contains 5% of molybdenum disulphide as solid lubricant.

Application

Nyco Grease GN 17 is designed for airframe lubrication in the temperature range −73 to +121°C. It is particularly suitable for bearings submitted to shock-loading or for parts in sliding motion where the presence of solid lubricants is beneficial.

Nyco Grease GN 17 can be used on the basis of its military approval MIL-PRF-21164 D on Boeing aircraft where the use of the general purpose BMS 3-33 grease is not allowed.

It shall not be used in contact with elastomers that are incompatible with esters, such as natural rubber, neoprene, nylon or butyl rubbers.

Characteristic	Unit	Result	Limit*	Test method
- Appearance	-	conform	homogeneous	visual
- Dropping point	°C	187	min. 165	ASTM D 566

- Penetrability
Unworked
Worked
  60 strokes
  100 000 strokes
	1/10 mm	280
		
		285
		300
			min. 200
			
			260 to 310
			260 to 375
				ASTM D 217
				
				ASTM D 217
				FTM-S-791-313

- Oil separation 30 h at 100°C Mass fraction	%	3.2	max. 5.0	ASTM D 6184
- Evaporation loss 22 h at 100°C Mass fraction	%	0.7	max. 2.0	ASTM D 2595
- Copper corrosion 24 h at 100°C Appearance of the strip	-	1b	max. 1 b	ASTM D 4048
- Load carrying capacity Mean Hertz load	daN	58	min. 50	ASTM D 2596
- 4-ball wear scar	mm	0.75	max. 0.9	ASTM D 2266

- Oxidation stability
        Under oxygen pressure
            Pressure drop after 100 h
	kPa	14	max. 70	ASTM D 942

- Molybdenum disulphide content	%m	5.0	4.5 to 5.5	FTM-S-791-3720
- Bearing performance at 121°C	h	> 1000 h	min. 1000 h	ASTM D 3336

* MIL-G-21164 D specification

TGN17-3E4a