



NYCO GREASE GN 144

AIMS 09-06-001

SPECIAL AIRCRAFT SYNTHETIC GREASE

DESCRIPTION :

NYCO GREASE GN 144 is a soft NLGI 1,5 grease, based on a synthetic poly-alpha-olefin and ester oil blend thickened with a lithium soap. It is fortified with strong anti-corrosion, antioxidant and anti-wear additives.

APPLICATION :



NYCO GREASE GN 144 has been developed with the cooperation of aircraft component manufacturers to solve the problem of slat & flap components jamming by ice at low temperature. It also suppress the problem of heavy corrosion caused by water ingress in the screw-jack ballnut that is often observed with standard MIL-PRF-23827 greases.

NYCO GREASE GN 144 has been qualified by Airbus Industries for such applications, is listed in the AIMS 09-06-001 QPL and mentioned on the Service Information Letter 27-094 rev. 4 dated May 14, 1996.

It can be used in the temperature range –60 to +120°C.

CHARACTERISTIC	UNIT	RESULT	LIMIT *	TEST METHOD
- Appearance	-	conform	Homogeneous, smooth brown grease	visual
- Dropping point	°C	187	min. 170	ASTM D 566
- Penetrability	1/10 mm			
Unworked		295	min. 200	ASTM D 217
Worked				
60 strokes		298	290 to 320	ASTM D 217
100 000 strokes		299		
Difference 10 ⁵ -60 strokes		1	max. 35	
- Oil separation				ASTM D 1742
Mass fraction	%	5.7	max. 7.5	
- Copper corrosion				ASTM D 4048
24 h at 100°C				
Appearance of the strip	-	1a	max. 1 b	
- Corrosion resistance				ASTM D 1743
with synthetic seawater	-	No rust	-	
- Water washout				ASTM D 1264
Mass fraction	%	2.0	-	
- Load carrying capacity				ASTM D 2596
Load Wear Index	daN	33	min. 30	
- Steel on steel wear scar	mm	0.70	max. 1.0	ASTM D 2266
- Low Temperature Torque at –50°C	nN.m			ASTM D 1478
starting		150	-	
after 60 min.		30	-	
- Oxidation stability				ASTM D 942
Under oxygen pressure				
Pressure drop after 100 h	kPa	14	max. 35	
- Bearing performance	h			ASTM D 3336
at 121°C		> 1000 h	min. 1000 h	

* Airbus Material Specification AIMS 09-06-001

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