



NYCO GREASE GN 148

Boeing BMS 3-33 (pending)
Airbus AIMS.09.06.002
SAE AMS 3052

HIGH PERFORMANCE GENERAL PURPOSE AIRCRAFT SYNTHETIC GREASE

DESCRIPTION :

NYCO GREASE GN 148 is a soft NLGI 2 grease, based on a synthetic diester and poly-alpha-olefin oil thickened with a lithium complex soap. It is fortified with anti-corrosion, antioxidant and strong anti-wear additives.

APPLICATION :



NYCO GREASE GN 148 is a new generation multi-purpose grease for airframe lubrication. It can be used over a wide temperature range of -73°C to +121°C. NYCO GREASE GN 148 offers an extremely good protection against corrosion – even by sea water. The very low resisting torque of NYCO GREASE GN 148 makes it the best choice for parts actuated by low-power motors.

Because of its excellent load carrying capacity, it is also suitable for heavily loaded ball, roller or needle bearings, gears or actuator screws and replaces most greases containing solid lubricants (molybdenum disulphide and graphite). It is also particularly suited for bearings with low-angle motion and/or under vibrations where fretting wear is an issue.

The SAE AMS 3052 specification has been accepted by Airbus and Boeing as “core requirement” for their respective multi-purpose airframe grease BMS 3-33 and AIMS.09.06.002

CHARACTERISTIC	UNIT	RESULT	LIMIT *	TEST METHOD
Colour	--	green/blue	green to blue	--
Dropping point	°C	230	min. 200	ASTM D 566
Penetration, worked 60 strokes	1/10 mm	285	265 to 315	ASTM D 217
Working stability in the presence of 10 % water				FTM-S-791-313
Difference in penetration from grease worked without water		30 315	-10 to +50 max. 340	
Low temperature torque at -73°C	Nm			ASTM D 1478
Starting		0.70	max 0.75	
Running (after 1 h)		0.09	max. 0.10	
With 10% m/m water added:				
Starting		0.80	max 1.00	
Running (after 1 h)		0.13	max. 0.20	
Extreme pressure properties	daN			ASTM D 2596
Mean hertz load		73	min. 60	
Weld load		620	min. 280	
Anti-wear properties				ASTM D 2266
Wear scar diameter	mm	0.5	max. 0.9	
Fretting wear protection	mg	2	report	ASTM D 4170
Evaporation loss				ASTM D 2595
500 h at 93°C	% weight	1.5	max. 8.0	
SKF Emcor test with salt water (3% NaCl solution), rating	-	0	0	ASTM D 6138
Water wash-out at 79°C	%m	2.5	7.5	ASTM D 1264
Performance of lubricating grease in antifriction bearing at 121°C	h	> 1200	min. 1000	ASTM D 3336
Elastomer compatibility				FTM-S-791-3603
168 h at 70°C				
Nitrile (NBR-L, AMS 3217/2)	%volume	14.2	-2.0 to +25.0	

* SAE AMS-3052 specification

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