



## Aeroplex GP33

Multipurpose Wide-temperature Full-synthetic Aircraft Grease

### Description

Castrol Aeroplex GP 33 is a synthetic hydrocarbon based advance blue-green lithium-complex NLGI grade 2 grease. It offers outstanding low temperature and good high temperature properties, with excellent anti-wear, and extreme pressure characteristics. It also has excellent resistance to oxidation, corrosion, and water.

### Application

Castrol Aeroplex GP 33 is a general purpose aircraft grease designed and intended for general use in ball, roller, and needle bearings; sliding and rolling surfaces of equipment; for actuator screws, gears, various instruments and electronic gear; and aircraft control systems. It is particularly suitable for equipment that must operate at both low and high temperatures. It can also be used for ground vehicles and equipment.

Castrol Aeroplex GP 33 meets & conforms to the requirements of Airbus IPS09-06-002-05, and is pending final approval to Boeing BMS 3-33C; MIL-PRF-23827C, Type I

It is designed to operate over the temperature range of -73C (-99F) up to a maximum of 275F (135C)

### Typical Characteristics

Name	Method	Units	Aeroplex GP33
Appearance	Visual	-	Smooth Green
Specific Gravity	-	-	0.87
Thickner Type			Lithium Complex
Base Oil Type	-	-	PAO
Base Oil Viscosity @ 40°C / 104°F	ASTM D445	mm <sup>2</sup> /s	16
Worked Penetration	ASTM D 217	1/10 mm	265 - 315
Dropping Point	ASTM D 2265	°C/°F	275/527
Dirt particle count	DEF STAN-795 Method 3005	0-74 µm ,75+µm	127, 0
Four Ball Load Wear Index	ASTM D 2596	kgf	73
Timken OK Load	ASTM D 2509	Lb	50
Low Temperature Torque @ -73°C Starting	ASTM D 1478	N.m	0.75
Low Temperature Torque @ -73°C Running after 1 hour	ASTM D 1478	N.m	0.1
Evaporation Loss	ASTM D 2595	% weight	8.1

Name	Method	Units	Aeroplex GP33
Oxidation Stability 100 hours at 99°C and 500 hours at 99°C	ASTM D 942	KPa (Psi)	21 (3) and 73.5 (10.5)
Emcor Test with 3% NaCl	ASTM D 6138	Rating	0/0
Water Washout 79°C, 1 hour	ASTM D 1264	% Loss	5.3
Copper Corrosion	Rating		1b
High Speed Bearing, @121°C	ASTM D 3336	Hours	>1300

## Additional Information

Castrol Aeroplex GP 33 provides controlled elastomeric swell characteristics. This grease is suitable for use on standard "L" type rubber. It should not be used with other types of rubber without first determining its compatibility

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