



SYNTHETIC AVIATION TURBINE OIL

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SAE AS5780 CLASS SPC

Airbus CML 03ABA1 - ATR CML 03-002 - Bombardier CML 03-001F, 03-009G, 03-012G, 03-015L, 03-016B - Boeing
CML D00068, D00523

DESCRIPTION

TURBONYCOIL 600 is a lubricating oil with a viscosity of 5 cSt at 100°C. It is based on high thermal stable neopentyl polyol esters, fortified with carefully selected anti-oxidant, anti-wear and anti-corrosion additives.

TURBONYCOIL 600 features a much lower volatility at high temperature and a higher flash point than oils from competition. It possesses excellent resistance to foaming and demonstrates superior lubricity.



APPLICATIONS

- Turbines and accessories (APU, starter, IDG, etc.) of military and commercial aircraft and helicopters
- Ground gas turbines (aeroderivative) including off-shore installations

TURBONYCOIL 600 is designed for use in gas turbine engines in military and civil aircrafts as well as in stationary industrial applications.

TURBONYCOIL 600 is approved by all major engine manufacturers (General Electric, Pratt and Whitney, Allison, Rolls-Royce, Allied Signal, Snecma, Klimov, Turbomeca, PZL-Rzeszow) for use in more than 40 different military engines powering a wide range of combat, transport or surveillance aircrafts or helicopters.

TURBONYCOIL 600 is also approved for use on the following civil and military engines, propellers, APU and IDG :

- CFM International CFM56-2, -3, -5A, -5B, -5C and -7, LEAP-series (ongoing)
- International Aero V 2500 series
- General Electric CF34 -3 to -10, CF6-80 (ongoing), F-404-GE-400, F110-GE-129, T700-GE-701C, CT7-9C, T58
- Honeywell APU 85, 131-9, 331 models
- Klimov TV-3-17
- Motor Sich D-436
- Perm Motor PS 90, PS 90A
- Pratt & Whitney PW1100G-JM.
- Pratt & Whitney Canada PT6A, PT6C, PT6T, PW 100 family, PW 200 family, PW 300 family, PW 500 family, PW 600 family, PW 800
- Rolls Royce / Allison RB211, BR715, AE3007, Allison 501K, Allison 250, T56, F-405-RR-401, EJ200, AE 2100 (ongoing), Adour Mk's 804, 804E, 811, 815, 861, 871, Pegasus, All Mk's, Viper Mk 301, Mk's 22-1, 526, 632-43, Orpheus Mk 80302, 803D-11, Gem Mk's 202, 204, 205, 1004, ...
- Snecma M53, M88, Silvercrest...
- Turbomeca All models Artouste, Astazou, Bastan, Arriel, Arrius, Makila, Larzac, Turmo, TM 319, TM 333, RTM 322, MTR 390
- Ratier Figeac / GE-Dowty Propellers
- UTAS/Hamilton Sundstrand All IDG models

TURBONYCOIL 600 is also approved for use on the following stationary industrial gas turbines:

- General Electric all models (LM 2500, LM 6000, LMS 100,...)
- Rolls-Royce / Allison Avon, RB211, Allison 501K, Olympus, Tyne, Spey, ...

Turbonycoil 600 has logged over 60 million hours of operation since 1985.

CHARACTERISTIC	UNIT	TYPICAL RESULT	LIMIT *	TEST METHOD
Kinematic viscosity at 100°C 40°C - 40°C	mm ² /s	5.03 25.01 9171	4.90 - 5.40 min. 23.0 max. 13000	ASTM D445
Density @ 20°C	kg/dm ³	0.993	-	ASTM D4052
Stability 72 h at - 40°C, viscosity change	%	1.0	max. +/- 6	ASTM D2532
Flash point, COC	°C	269	min. 246	ASTM D92
Pour point	°C	- 57	max. - 54	ASTM D97
Acid number	mg KOH/g	0.2	max. 1.00	SAE-ARP-5088
Particles contamination according to NAS 1638	Class	5	max. 6	FED-STD-791-3012
Evaporation loss 6 h 30 at 204°C	%w	3.4	max. 10.0	ASTM D972
Foaming characteristics Foam volume at 24°C after 5 minutes aeration after 1 minute settling at 94°C after 5 minutes aeration after 1 minute settling at 24°C after 94°C after 5 minutes aeration after 1 minute settling	ml	9 0 5 0 7 0	max. 25 0 max. 25 0 max. 25 0	ASTM D892
Thermal stability and corrosivity 96 h at 274°C Viscosity change at 40°C Acid number change Steel weight change	% mg KOH/g mg/cm ²	1.1 1.3 0.1	max. +/- 5.0 max. 6.00 max. +/- 4.00	FED-STD-791-3411
Sediments, filtered through 1.2 micron	mg/dm ³	0.3	max. 10.0	FED-STD-791-3010
Corrosion and oxidative stability 72 h at 204°C Acid number change Viscosity change at 40°C Steel weight change Silver weight change Aluminium weight change Magnesium weight change Copper weight change Sludge content through 10 microns	mg KOH/g % mg/cm ² mg/cm ² mg/cm ² mg/cm ² mg/cm ² mg/cm ² mg/100 cm ³	1.20 16.0 0.0 0.0 0.0 0.0 0.0 0.7	max. 3.00 - 5.0 to + 25.0 max. +/- 0.2 max. +/- 0.2 max. +/- 0.2 max. +/- 0.2 max. +/- 0.4 max. 50.0	FED-STD-791-5308
HLPS dynamic coking at 375°C – 20 h	mg	0.6	max. 4.0	SAE-ARP5996

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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.

