NYCO AERONAUTICS & DEFENCE

ROTORAIR GROUP
AUTHORIZED DISTRIBUTOR FOR CENTRAL AMERICA & THE CARIBBEAN

TECHNICAL DATA SHEET

TURBONYCOIL 600

SYNTHETIC AVIATION TURBINE OIL

NATO CODE O-156 – MIL-PRF-23699 G Class STD – DCSEA 299/A
DEF STAN 91-101 Iss.3, Amd. 1 – OX-27 / OX-28

SAE AS5780 Class SPC

DESCRIPTION

TURBONYCOIL 600 is a lubricating oil with a viscosity of 5 cSt at 100°C. It is based on high thermal stable 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

- Turbine oil (power plant, APU, starter, IDG, …) for aircraft and helicopters
- Helicopter systems
- Leak testing
- Test bench
- Ground gas turbine (aeroderivative)
- Off-shore installation

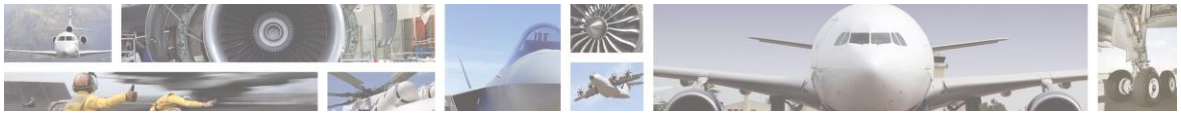
TURBONYCOIL 600 is designed for use in gas turbine engines in military and civil aircrafts as well as in stationary industrial applications.

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, …

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.



TECHNICAL DATA SHEET

TURBONYCOIL 600

- 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 @ 100°C 40°C - 40°C	mm²/s	5.03 25.01 9171	4.90 - 5.40 min. 23.0 max. 13000	ASTM D 445
- Density @ 20°C	kg/m³	0.993	-	ASTM D 4052
- Stability 72 h @ - 40°C, viscosity change	%	1.0	max. +/- 6	ASTM D 2532
- Flash point, COC	°C	269	min. 246	ASTM D 92
- Pour point	°C	- 57	max. - 54	ASTM D 97
- 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°Cn	%w	3.4	max. 10.0	ASTM D 972
- Foaming characteristics Foam volume @ 24°C after 5 minutes aeration 1 minute settling @ 94°C 5 minutes aeration 1 minute settling @ 24°C after 94°C 5 minutes aeration 1 minute settling	ml	 9 0 5 0 7 0	 max. 25 0 max. 25 0 max. 25 0	ASTM D 892
- Thermal stability and corrosivity 96 h @ 274°C Viscosity change at 40°C Acid number change Steel weight change	% mg KOH/g mg/cm²	 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/dm³	0.3	max. 10.0	FED-STD-791-3010
- Corrosion and oxidative stability 72 h @ 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/cm² mg/cm² mg/cm² mg/cm² mg/cm² mg/100 cm³	 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 @ 375°C – 20 h	mg	0.6	-	SAE-ARP5996

* MIL-PRF-23699 G Class STD, SAE AS5780 Class SPC

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