NYCO
AERONAUTICS & DEFENCE

TURBONYCOIL 601

TECHNICAL DATA SHEET

SYNTHETIC AVIATION TURBINE OIL

NATO CODE O-152

DESCRIPTION

Turbonycoil 601 is a lubricating oil with a viscosity of 5 cSt at 100°C. It is based on neopentyl polyol esters with high thermal stability, fortified with carefully selected anti-oxidant, anti-wear and anti-corrosion additives.

APPLICATIONS

- Turbine of military and commercial aircrafts and helicopters requiring rust and corrosion protection due to exposure to salt-laden air and ambient tropical environments
- Ground gas turbines (aero-derivative) used for power generation, gas pipelines and off-shore platforms requiring rust and corrosion exposure to salt-laden air and ambient tropical environments

SPECIFICATIONS * / OEM's & Airframers reference

- Meets MIL-PRF-23699 G Class C/I
- Listed in Airbus Helicopters CM128

* **Meets:** The product complies with all the requirements of the specification and has not been formally approved or approval is in progress or the specification is obsolete.

CHARACTERISTIC	UNIT	TYPICAL RESULT	MIL-PRF-23699 LIMIT	TEST METHOD
Kinematic Viscosity **at 100°C** **at 40°C** **at - 40°C**	mm²/s	 5.05 26.0 11400	 4.90 - 5.40 min. 23.0 max. 13000	ASTM D445
Density at 20°C	kg/dm³	0.997	report	ASTM D4052
Evaporation Loss, 6 h 30 at 204°C	%w	4.0	max. 10.0	ASTM D972
Flash Point, COC	°C	262	min. 246	ASTM D92
Pour Point	°C	- 57	max. - 54	ASTM D97
Acid Number	mg KOH/g	0.6	max. 1.00	SAE ARP 5088
Rubber Swell after 72 hrs **AMS 3217/1 at 70°C** **AMS 3217/4 at 204°C**	%v	 17.8 17.0	 5 to 25 5 to 25	FTM-S-791-3604
Foaming Test (tendency/stability) **at 24°C** **at 94°C** **at 24°C after 94°C**	cm³/min	 5/0 10/0 5/0	 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/cm²	 1.0 1.6 0	 max. +/- 5.0 max. 6.00 max. +/- 4.00	FTM-S-791-3411
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**	 mg KOH/g % mg/cm² mg/cm² mg/cm² mg/cm² mg/cm²	 0.8 + 17.0 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02	 max. 3.00 - 5.0 to + 25.0 max. +/- 0.2 max. +/- 0.2 max. +/- 0.2 max. +/- 0.2 max. +/- 0.4	FTM-S-791-5308

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.

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