



SYNTHETIC AVIATION TURBINE OIL

NATO CODE O-152 - MIL-PRF-23699 G CLASS CI

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

CHARACTERISTIC	UNIT	TYPICAL RESULT	MIL-PRF-23699 LIMIT	TEST METHOD
Kinematic viscosity at 100°C at 40°C at - 40°C	mm ² /s	5.05 26.0 11400	4.90 - 5.40 min. 23.0 max. 13000	ASTM D445
Density at 20°C	kg/dm ³	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	cm ³ /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/cm ²	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/cm ² mg/cm ² mg/cm ² mg/cm ² mg/cm ²	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.