



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 polyol esters with high thermal stability, fortified with carefully selected anti-oxidant, anti-wear and anti-corrosion additives.



MAIN APPLICATIONS

- Turbine of military and civil 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 D 445
- Density at 20°C	kg/dm ³	0.993	report-	ASTM D 4052
- Evaporation loss, 6 h 30 at 204°C	%w	4.6	max. 10.0	ASTM D 972
- Flash point, COC	°C	262	min. 246	ASTM D 92
- Pour point	°C	- 57	max. - 54	ASTM D 97
- Acid number	mg KOH/g	0.5	max. 1.00	SAE ARP 5088
- Rubber swell after 72 hrs AMS 3217/1 at 70°C AMS 3217/4 at 204°C	%v	5.6 16.8	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	0/0 5/0 0/0	max. 25/0 max. 25/0 max. 25/0	ASTM D 892
- 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	1.2 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 + 18.5 < 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.

