NYCO
AERONAUTICS & DEFENCE

TURBONYCOIL 601

TECHNICAL DATA SHEET

SYNTHETIC AVIATION TURBINE OIL

NATO CODE O-152 / O-156

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

- Approved MIL-PRF-23699 G Class C/I
- Approved OX-152
- Approved MIL-PRF-23699 G Class STD
- Listed in Airbus Helicopters CM128

* **Approved:** The product has been approved by the relevant authority. The product is referenced on the applicable qualified product list.

CHARACTERISTIC	UNIT	TYPICAL RESULT	MIL-PRF-23699 LIMIT	TEST METHOD
Kinematic Viscosity				
at 100°C	mm²/s	5.05	4.90 - 5.40	ASTM D445
at 40°C		26.1	min. 23.0	
at - 40°C		11974	max. 13000	
Density at 20°C	kg/dm³	1.00	report	ASTM D4052
Evaporation Loss, 6 h 30 at 204°C	%w	3.5	max. 10.0	ASTM D972
Flash Point, COC	°C	256	min. 246	ASTM D92
Pour Point	°C	- 60	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	%v	17.8	5 to 25	FTM-S-791-3604
AMS 3217/4 at 204°C		17.0	5 to 25	
Foaming Test (tendency/stability)				
at 24°C	cm³/min	0/0	max. 25/0	ASTM D892
at 94°C		5/0	max. 25/0	
at 24°C after 94°C		0/0	max. 25/0	
Thermal Stability and Corrosivity, 96 h at 274°C				
Viscosity Change at 40°C	%	0.1	max. +/- 5.0	FTM-S-791-3411
Acid Number Change	mg KOH/g	2.5	max. 6.00	
Steel Weight Change	mg/cm²	- 0.6	max. +/- 4.00	
Corrosion and Oxidative Stability, 72 h at 204°C				
Acid Number Change	mg KOH/g	0.9	max. 3.00	FTM-S-791-5308
Viscosity Change at 40°C	%	+ 16.5	- 5.0 to + 25.0	
Steel Weight Change	mg/cm²	0.00	max. +/- 0.2	
Silver Weight Change	mg/cm²	- 0.01	max. +/- 0.2	
Aluminium Weight Change	mg/cm²	- 0.01	max. +/- 0.2	
Magnesium Weight Change	mg/cm²	0.00	max. +/- 0.2	
Copper Weight Change	mg/cm²	- 0.01	max. +/- 0.4	

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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