



JET AIRCRAFT SYNTHETIC OIL
NATO CODE O-150 – AIR 3514/A Iss.2

DESCRIPTION

Turbonycoil 13 B is a lubricating oil with a viscosity of 3 cSt at 100°C. It is based on a synthetic ester and contains anti-oxidant, anti-wear and anti-corrosion additives.



APPLICATIONS

- Helicopter systems
- Turbine oil (power plant, APU, starter, IDG...)
- Test bench

Turbonycoil 13 B has been specially developed to lubricate aircraft turbine engines equipped with a total loss lubrication system such as SNECMA ATAR, fitted on Dassault Mirage III, IV, F1 and 5 ; Super Etendard.

It is also approved for use on SNECMA M53 engine (Dassault Mirage 2000 series) and many Turbomeca engines (Artouste II and III ; Astazou II ; IV M ; XIV ; XVI, Makila, Arriel, Turmo IV, TM 319 and TM 333). These engines power a large number of civil and military helicopters.

Characteristic	Unit	Typical Result	AIR 3514/A Limit	Test method
- Appearance	-	conform	bright limpid liquid	visual examination
- Density at 20°C	kg/dm ³	0.942	report	ASTM D 4052
- Kinematic viscosity at 100°C	mm ² /s	3.29	min. 3	ASTM D 445
40°C		12.8	report	
- 54°C		12700	max. 17000	
- Flash point	°C	222	mini. 210	ASTM D 92
- Foaming characteristics at 80°C	cm ³ s	20 5	max. 100 max. 60	FTM-S-791-3213
volume after 5 minutes aeration				
time for total foam collapse				
- Evaporation losses 6 h 30 at 204°C	%w	26	max. 30	ASTM D 972
- Acid number	mg KOH/g	0.02	max. 0.30	ASTM D 664
- Lead corrosion, 1 h at 163°C	mg/cm ²	- 0.04	max. +/- 1	FTM-S-791-5321
- Water content	mg/kg	300	max. 500	ASTM D 1533
- Brass and silver corrosion, 50 h at 232°C	mg/cm ²	0.01	max. +/- 0.20	FTM-S-791-5305
Brass	mg/cm ²	0.00	max. +/- 0.20	
Silver				
- Oxidation & Corrosion stability, 96 h at 175°C				
Viscosity change at 40°C	%	+ 8.7	- 5 to + 15	FTM-S-791-5308
Acid number change	mg KOH/g	1.3	max. 2.0	
Sediment content	mg/100 cm ³	2.5	max. 10	
Weight change				
Copper test tube	mg/cm ²	- 0.1	max. +/- 0.4	
Steel test tube		0.0	max. +/- 0.2	
Aluminium test tube		0.0	max. +/- 0.2	
Magnesium test tube		0.0	max. +/- 0.2	
Silver test tube		0.0	max. +/- 0.2	
- Elastomer compatibility NBRH after 168 h at 70°C	% volume	+ 23.2	+ 12 to + 35	
- Metallic components content Ag, Al, Cr, Cu, Fe, Mg, Mo, Ni, Pb, Si, Sn, Ti	mg/kg	0	max. 2	Induction Coupled Plasma Spectrometry

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.

