



## MINERAL TURBINE OIL

**NATO CODE O-133 – AIR 3516/A Iss.2 – MIL-PRF-6081E Grade 1010**

### DESCRIPTION

Turbonycoil 3516 is a mineral turbine oil blended from mineral naphthenic base stocks and anti-oxidant additives, with a viscosity of 3 cSt at 100°C. It retains a low viscosity at very low temperature, down to - 60°C.



### MAIN APPLICATIONS

- Turbine oil (power plant, APU, starter, IDG...) for civil and military aircraft and helicopter of first generation
- Preservation oil for aircraft engine fuel control system

Characteristic	Unit	Typical Result	AIR 3516/A Limit	Test method
- Colour	-	0.5	max. 5.5	ASTM D 1500
- Density at 20°C	kg/dm <sup>3</sup>	0.846	report	ASTM D 4052
- Kinematic viscosity	mm <sup>2</sup> /s			
At 40°C		11.3	mini. 10.0	
At 100°C		2.9	report	
At - 40°C				
after 35 min.		2451	max. 3000	ASTM 2532
after 3 h		2461	max. 3000	
change after 3 h	%	0.4	max. 2.0	
- Pour point	°C	- 61	max. - 57	ASTM D 97
- Flash point	°C	170	min. 132	ASTM D 92
- Sedimentation number	cm <sup>3</sup>	nil	nil	ASTM D 91
- Foaming test (tendency / stability)				
at 24°C	cm <sup>3</sup> /cm <sup>3</sup>	25/0	report	ASTM D 892
at 94°C		15/0	report	
at 24°C after 94°C		25/0	report	
- Acid number	mg KOH/g	0.01	max. 0.10	ASTM D 664
- Copper corrosion, 3 h at 121°C		1 b	max. 1 b	ASTM D 130
- Oxidation-corrosion test, 168 h at 121°C				
Viscosity change at 40°C	%	+ 0.7	- 5 to + 20	
Acid number change	mg KOH/g	+ 0.02	max. +/- 0.20	
Metal weight change	mg/cm <sup>2</sup>			
Steel		0.0	max. +/- 0.2	FTM-S-791-5308
Copper		0.0	max. +/- 0.2	
Cadmium		0.0	max. +/- 0.2	
Aluminium		0.0	max. +/- 0.2	
Magnesium		0.0	max. +/- 0.2	
Deposits	mg/100cm <sup>3</sup>	0.15	max. 20	

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.

