



**PETROLEUM AVIATION TURBINE OIL**

SM 4.5

**DESCRIPTION**

**Turbonycoil 306** is a petroleum lubricating oil made from a mixture of 75% TURBONYCOIL 321 (approved as analog to MS-8P) and 25% TURBONYCOIL 308 (analog to MS-20). It has a viscosity of 4.5 cSt at 100°C.

**APPLICATIONS**

**Turbonycoil 306** is intended for the lubrication of turboprop engines with heavily loaded gear-boxes.

It has been approved by CIAM (Central Institute of Aircraft engines) as an analog to the Russian type "SM-4,5".

**Turbonycoil 306** is validated for use mainly on Antonov aircrafts (Antonov 12, 24, 26, 30 and 32).



**SPECIFICATIONS \* / OEM's & Airframers reference**

- Analog to OST 54-3-175-72-99
- Analog to SM-4,5

\* **Analog:** The product complies with the major requirements of the Russian specification. The product is referenced on the product list recommended for Russian aviation by the Central Institute of Aviation Motors (CIAM).

CHARACTERISTIC	UNIT	TYPICAL RESULT	LIMIT	TEST METHOD
Appearance	-	limpid	-	Visual examination
Density at 20°C	kg/dm <sup>3</sup>	0.864	min. 0.860	ASTM D4052
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	4.5	4.30 to 4.70	ASTM D445
Flash Point, COC	°C	170	mini. 138	ASTM D93
Pour Point	°C	- 54	max. - 35	ASTM D97
Total Acid Number	mg KOH/g	0.01	max. 0.05	ASTM D664
Water Content	mg/kg	40	max. 500	ASTM D1533
Thermo-oxidative Stability, 50 h at 130°C				
Total acid number	mg KOH/g	0.03	max. 0.06	
Viscosity at 100°C	mm <sup>2</sup> /s	4.7	max. 5.0	
Viscosity at - 15°C	mm <sup>2</sup> /s	715	max. 950	
Metal specimen weight change :				GOST 23797
Steel SHKH-15	mg/cm <sup>2</sup>	0.0	nil	
Aluminium AK-4	mg/cm <sup>2</sup>	0.0	nil	
Copper	mg/cm <sup>2</sup>	0.0	nil	
Insoluble in isooctane	%w	0.0	max. 0.025	
Ash Content	%	0.002	0.005	ASTM D482

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.