



AVIATION TURBINE OIL

GOST 6457-66 – OST 38 01163-78 – MK-8 / MK-8P / MS-8P

DESCRIPTION

Turbonycoil 321 is based on a petroleum base stock and contains additives to improve the high temperature oxidation stability and prevent wear of gas turbine engines. It has a viscosity of 8 cSt at 50°C.



APPLICATION

Turbonycoil 321 has been designed for the lubrication of the majority of gas turbines of Russian design. It can also be used as an anti-corrosion oil in closed circuit (MS-8RK). TURBONYCOIL 321 has been used since the early 1990's on civil airliners such as Tu-134, Tu-154 and Il-76 with hundreds of thousand flying hours accumulated.

It has been approved by CIAM (Central Institute of Aircraft engines) as an analog to the Russian type MS-8P. It is also approved by OEM Mashproekt for use on industrial & marine gas turbines.

Turbonycoil 321 is validated for use on the following engines/aircraft (military and civil) :

Engines	Aircraft
RKBM D-30 / D-30KP	Tu-134, Tu-154M, A-40, Il-76, Il-78, Il-62M
NPO Saturn AL-7F	Su-7, Su-9, Su-11, Su-17
Tumanski R-11	Mig 21, Jak-28, Su-15
NPO Motor R-95	Su-25, Su-28
RD-3M / RD-7M	Tu-16, Tu-22
Kuznetsov NK-8, NK-86	Tu-154, Il-62, Il-86
Progress Al-25	M-15, Jak-40, Mi-10
OMKB GTD-3F	Ka-25

Turbonycoil 321 is also recommended for a large number of APU (VCU) and turbocoolers fitted on Russian aircrafts.

Characteristic	Unit	Typical Result	Limit	Test method
- Appearance	-	limpid	-	visual examination
- Density at 20°C	kg/dm ³	0.852	max. 0.875	ASTM D 4052
- Kinematic viscosity				
At 50°C	mm ² /s	8.3	min. 8.00	ASTM D 445
At - 40°C (after 35 minutes)		2600	max. 4000	
- Pour point	°C	- 60	max. - 55	ASTM D 97
- Flash point , COC	°C	156	min. 145	ASTM D 93
- Total acid number	mg KOH/g	0.01	max. 0.10	ASTM D 974
- Foaming test at 24°C (tendency / stability)	cm ³ /cm ³	30/0	max. 100/0	ASTM D 892
- Thermo-oxidative stability, 50 h at 150°C				
Total acid number	mg KOH/g	0.02	max. 0.4	
Viscosity at 50°C	mm ² /s	8.8	max. 10.0	
Viscosity at - 40°C	mm ² /s	3000	max. 5000	
Metal specimen weight change :	mm ² /s			GOST 23797
Steel SHKH-15		0.0	nil	
Aluminium AK-4	mg/cm ²	0.0	nil	
Copper	mg/cm ²	0.0	max. +/- 0.20	
Insoluble in isoctane	mg/cm ²	0.0	max. 0.1	
	%w			

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.

