



DESCRIPTION

Turbonycoil 699 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 selected additives. It exhibits an improved anti-wear performance over turbine oils of same viscosity (5 cSt – MIL-PRF-23699 Class STD and HTS).



APPLICATIONS

Turbonycoil 699 is designed for use in gas turbine engines in military and commercial aircrafts as well as in stationary industrial applications. **Turbonycoil 699** is best used in jet engines that require a very high load-carrying capacity to reduce wear of highly loaded components (gearbox, bearings). **Turbonycoil 699** is recommended for helicopter gearboxes that are exposed to both high loads and high temperature for long period of time and is a substitute of the Russian oil B-3V (TU 38 101295-85). **Turbonycoil 699** has been used since 1996 on the RB199 engine of Panavia Tornado multi-role fighter.

SPECIFICATIONS * / OEM's & Airframers reference

- Approved DEF STAN 91-100 Iss. 3 / OX-26
- Analog to ANALOG B-3V (TU38 101295-85)

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

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	DEF STAN 91-100 LIMIT	TEST METHOD
Density at 15°C	kg/dm ³	0.994	report	ASTM D4052
Kinematic Viscosity at 100°C	mm ² /s	5.1	4.90 - 5.40	ASTM D445
at 40°C		25.6	max. 30.0	
at - 40°C		10000	max. 13000	
Flash Point, COC	°C	265	min. 210	ASTM D92
Pour Point	°C	- 57	max. - 54	ASTM D97
Acid Number of the base stock	mg KOH/g	0.01	max. 0.1 report	ASTM D664
of the fully formulated oil		0.55		
Foaming Test (tendency 5min aeration / stability 1 min settling)	ml/ml			ASTM D892
at 24°C		5/0	max. 25 / 0	
at 94°C		5/0	max. 25 / 0	
at 24°C after 94°C		5/0	max. 25 / 0	
High Temperature Oxidative Stability, 25 h at 220°C	mg KOH/g	0.0	max. 1.5	DEF STAN 05-50- Part 61 method 9
Acid Number Change				
Metal Content	mg/kg			ASTM D5185 Induction Coupled Plasma
Aluminium		0.0	max. 2	
Chromium		0.0	max. 2	
Copper		0.0	max. 2	
Iron		0.0	max. 2	
Lead		0.0	max. 2	
Magnesium		0.0	max. 2	
Nickel		0.0	max. 2	
Silver		0.0	max. 2	
Titanium		0.0	max. 2	
Silicium		1.0	max. 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 edition.