

# Synthetic aviation turbine oil IPM-10

## Description:

A high-performance aircraft-type gas turbine lubricant formulated with a combination of a polyalphaolefin with high thermal stability synthetic ester base oil and a unique chemical additive package. It exhibits a much-improved anti-wear performance, low evaporation rate, high lubricating properties, high thermo-oxidative stability and excellent resistance to foaming.

## Application:

best used in heat-stressed gas-turbine military and civil aircraft engines with the outlet oil temperature of up to 200°C. It can also be used in aircraft cooling turbines as a main oil brand, as well as in other assemblages, particularly, in aircraft engine powered gas-compressing plants. The effective operating range from -50°C to +200°C.

## Cost Saving Benefits:

- Low pour point, does not freeze to -50°C.
- Excellent thermal and oxidation stability
- Excellent wear and corrosion protection
- Provides effective lubrication at high operating temperatures
- Reduces evaporation losses and lowers oil consumption.

## Performance Level:

TU 38.1011299-2006.

## Pack sizes:

18 liters, 14.5 or 15.0 kg net each 55 Gallon Drum, IBC.

Test	Result
Appearance	Light yellow clear oil
Density at 20°C, Kg/dm <sup>3</sup>	843
Viscosity at 100°C -40°C	3.8 cSt 3000 cSt
Flash point, COC, °C	216
Pour Point, °C	-56
Acid number, mg KOH/g	0.025
Lubricity at 20±5 (Pk), kgf	>71
Mechanical impurities, %	None
Thermal-oxidative stability at 200 °C for 50 hours according to GOST 23797-79:	
- mass fraction of a deposit, insoluble in an isooctane, %, not more than	0,1
- acid number after oxidation, mg KOH/g oil according to GOST 5985-79, not more than	8,0
- kinematic viscosity, mm <sup>2</sup> /sec:	
a) at 100 °C, not more than	5,0
b) at - 40 °C, not more than	5000
- corrosion of oil on steel plates SH-15 according to GOST 801, not more than	None
a) aluminum alloy AK-4 according to GOST 4784, not more than	None
b) copper M-1 or M-2 according to GOST 495, mg/cm <sup>3</sup> , not more than	None

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