

# Technical Data Sheet

## Eastman™ Turbo Oil 2380

### Applications

- Aerospace
- Aviation turbine oil (ATO)

### Key Attributes

- 5 cSt synthetic lubricant
- Balanced combination of Oxidative and Thermal stability
- Best low temperature characteristics

### Product Description

Eastman Turbo Oil 2380™ is still one of the most widely used turbine oils in the commercial aviation industry. It was one of the first turbine oils to be qualified and approved for MIL-PRF-23699 STD (Standard) class and subsequently SAE AS5780 SPC (Standard Performance Capability) class.

If you're looking for exceptional accessory performance Turbo Oil 2380 delivers, with extended on-wing accessories lifespan and improved reliability. Turbo Oil 2380 has also been found to neutralize the effects of copper (Cu)—with superior metal passivation results showing reduced oxidation and sludge formation.

### Typical Properties

Property	Test Method	Typical Value, Units
<b>General</b>		
Density @ 15°C	ASTM D 1298	0.9749 kg/L
Viscosity, Kinematic @ 100°C	ASTM D 445	4.97 mm <sup>2</sup> /s
@ 40°C	ASTM D 445	24.2 mm <sup>2</sup> /s
@ -40°C after 35 minutes	ASTM D 2532	7,950 mm <sup>2</sup> /s
Pour Point	ASTM D 97	-57 °C
Flash Point	ASTM D92	265 °C
Total Acid Number	SAE ARP5088	0.43 mg KOH/g
Evaporation Loss 6.5 hrs @ 204°C	ASTM D 972	3.0 %
Foaming Volume Sequence 1 @ 24°C	ASTM D 892	9/0 ml/vol
Sequence 2 @ 93 °C	ASTM D 892	8/0 ml/vol
Sequence 3 @ 24°C	ASTM D 892	8/0 ml/vol
Load Carrying Ability <sup>a</sup> 2000 rpm	IP 166	99 %
6000 rpm	IP 166	86 %
Rubber Swell Nitrile Rubber (192 hrs @ 130°C)	DERD Test, Method 4	10.5 %
Silicone Rubber (192 hrs @ 175°C)	DERD Test, Method 4	10.5 %
Viton LCS Rubber (192 hrs @ 200°C)	DERD Test, Method 4	14 %
Viton Rubber (192 hrs @ 200°C)	DERD Test, Method 4	22.5 %

<sup>a</sup>IAE Gear Machine, Ref Oil A

## Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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