



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 |
|------------------------------------|---------------------|--------------------------|
| General | | |
| Density | | |
| @ 15°C | ASTM D 1298 | 0.9749 kg/L |
| Viscosity, Kinematic | | |
| @ 100°C | ASTM D 445 | 4.97 mm ² /s |
| @ 40°C | ASTM D 445 | 24.2 mm ² /s |
| @ -40°C after 35 minutes | ASTM D 2532 | 7,950 mm ² /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 ^a | | |
| 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 % |

^aIAE 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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