

# 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<br>@ 15°C                   | ASTM D 1298         | 0.9749 kg/L              |
| Viscosity, Kinematic<br>@ 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<br>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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