ExxonMobil

# Mobil Avrex S Turbo 256

ExxonMobil Aviation , New Guinea

Aircraft Type Gas Turbine Lubricant

## Product Description

Mobil Avrex S Turbo 256 gas turbine lubricant is a combination of a highlystable synthetic base fluid and a unique chemical additive package. Thecombination provides outstanding thermal and oxidative stability to resistdeterioration and deposit formation in both the liquid and vapor phases, aswell as excellent resistance to foaming.

The effective operating range of Mobil Avrex S Turbo 256 is between -54°C and176°C (-65°F and 350°F). The pour point is below -60°C (-75°F). The producthas a high specific heat in order to ensure good heat transfer from oil-cooledengine parts. In extensive laboratory testing and in-flight performance,Mobil Avrex S Turbo 256 exhibits excellent bulk oil stability at temperaturesup to 176°C (350°F). The evaporation rate at these temperatures is low enoughto prevent excessive loss of volume.

## Application

Mobil Avrex S Turbo 256 is recommended for aircraft gas turbine engines incommercial and military service, particularly where start-up temperatures arebelow -40°C (-40°F). The product is approved against U.S. MilitarySpecification MIL-PRF-7808, Grade 3, and by the following engine and accessorymanufacturers:

Engine and Accessory Approvals

Approved in equipment specifying 3 centistokes, MIL-PRF-7808 (latest revision)lubricants. Mobil Avrex S Turbo 256 is compatible with other synthetic gasturbine lubricants meeting MIL-PRF-7808 or MIL-PRF-23699 Specifications.However, mixing with other products is not recommended because the blendwould result in some loss of the performance characteristics of Mobil Avrex STurbo 256. The product is compatible with all metals used in gas turbineconstruction, as well as with F rubber (Viton A), H rubber (Buna N), and FVMQrubber (fluorosilicone).

## Advantages

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|---|
| Uniquely suited for use when extreme low temperatures restrict the use of higher viscosity engine oils. |

## Typical Properties

| Avrex S Turbo 256 | | MIL-PRF-7808 Grade 3 Requirements |
|---|---|---|
| Product Number | 49423-7 | - |
| Viscosity | | |
| cSt at 100°C (212°F) | 3.3 | 3.0 min |
| cSt at 40°C (104°F) | 13.3 | 11.0 min |
| cSt at -51°C (-60°F) after 3 hr | 10,459 | 17,000 max |
| cSt at -51°C (-60°F) after 72 hr | 10,495 | 17,000 max |
| Flash Point, °C (°F) | 224 (435) | 210 (410) min |
| Fire Point, °C (°F) | 256 (493) | - |
| Pour Point, °C (°F) | -60 (-75) | - |
| Specific Gravity, 15/15°C (60/60°F) | 0.9634 | - |
| TAN, mg KOH/g | 0.03 | 0.30 max |
| Evaporation Loss, % | | |
| 6.5 hr at 204°C (400°F) | 19.6 | 30 max |
| Foam, volume/collapse time | | |

| Avrex S Turbo 256 | | MIL-PRF-7808 Grade 3 Requirements |
|---|---|---|
| Static, ml/sec | 20/6 | 100/60 max |
| Dynamic, ml/sec | pass | 100/60 max |
| Rubber Swell, % | | |
| H Rubber, 168 hr at 70°C (158°F) | 28.6 | 12-35 |
| F Rubber, 72 hr at 175°C (347°F) | 19.1 | 2-25 |
| FS Rubber, 72 hr at 150°C (302°F) | 10.6 | 2-25 |

## Health and Safety

Based on available information, this product is not expected to produceadverse effects on health when used for the intended application and therecommendations provided in the Material Safety Data Sheet (MSDS) arefollowed. MSDS's are available upon request through your sales contractoffice, or via the Internet. This product should not be used for purposesother than its intended use. If disposing of used product, take care toprotect the environment.

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Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

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