



ExxonMobil Jet Fuel

ExxonMobil Commercial Fuel , Germany

Product Description

Jet A and Jet A-1 are kerosene-type fuels. The primary difference between the two is freeze point, the temperature at which wax crystals disappear in a laboratory test.

Jet A, which is mainly used in the United States, must have a freeze point of minus 40°C or below and does not typically contain static dissipator additive. Jet A-1 must have a freeze point of minus 47°C or below and for locations outside the United States, this fuel normally contains static dissipator additive. There are other key differences between the manufacturing specification within the United States and Europe/Africa/Middle East/Australasia.

ExxonMobil Jet A and ExxonMobil Jet A-1 meet the requirements of ASTM D1655 Standard Specification for Aviation Turbine Fuels. ExxonMobil Jet A-1 also complies with U.K. DEF STAN 91-091, and the JIG (Joint Inspection Group) Aviation Fuel Requirements for Jointly Operated Systems (Check List). Jet A-1 manufactured to Def. Stan. 91-091 has a lower max limit for acidity and additional requirement for conductivity. In all cases, the most recent issue of relevant specifications applies to the product supplied.

Specifications

| ExxonMobil Jet Fuel meets the following industry specifications: | ExxonMobil Jet A | ExxonMobil Jet A-1 |
|--|------------------|--------------------|
| ASTM D1655 | X | X |
| CGSB 3.23 | X | X |
| U.K. DEF STAN 91-091 | | X |

Product Properties ASTM D1655, CGSB 3.23, and Def. Stan 91-091

Note: where the required significant figures differ between specs, the larger amount of significant figures is shown below

| | Jet A | Jet A-1 |
|-----------------------------------|------------|--|
| Acidity, mg KOH/g | 0.10 Max. | 0.10 Max. (0.015 Max for Def. Stan 91-091) |
| Aromatics, Vol. % | 25 Max. | 25.0 Max. |
| Sulphur, mercaptan, Wt. % | 0.003 Max. | 0.0030 Max. |
| Sulphur, total, Wt. % | 0.30 Max. | 0.30 Max. |
| 10% Distillation, °C | 205 Max. | 205.0 Max. |
| Final Boiling Point, °C | 300 Max. | 300.0 Max. |
| Distillation Residue, % | 1.5 Max. | 1.5 Max. |
| Distillation Loss, % | 1.5 Max. | 1.5 Max. |
| Flash Point, °C | 38 Min. | 38.0 Min. |
| Density @ 15°C, kg/m ³ | 775 to 840 | 775.0 to 840.0 |
| Freeze Point, °C | -40 Max | -47.0 Max |

| | Jet A | Jet A-1 |
|--|---|---|
| Viscosity @ -20°C, mm/s | 8.0 Max. | 8.000 Max. |
| Net Heat of Combustion, MJ/kg | 42.8 Min. | 42.80 Min. |
| One of the following shall be met: | | |
| 1) Smoke Point, mm, or | 25.0 Min. | 25.0 Min. |
| 2) Smoke Point, mm, and | 18.0 Min. | 18.0 Min. |
| Naphthalenes, Vol. % | 3.0 Max | 3.00 Max. |
| Copper Strip Corrosion, 2 h % 100°C | No. 1 Max. | No. 1 Max. |
| Thermal Stability @ 260°C: | | |
| -Filter pressure drop, mm Hg | 25 Max. | 25 Max. |
| -Tube Deposits | < 3 Max. No Peacock (P) or Abnormal (A) | < 3 Max. No Peacock (P) or Abnormal (A) |
| Existent Gum, mg/100 mL. | 7 Max. | 7 Max. |
| MSEP Rating | | |
| -Without electrical conductivity additive | 85 | 85 |
| -With electrical conductivity additive | 70 | 70 |
| Electrical conductivity, pS/m | | |
| *Use of conductivity improver additive and resulting limits are optional in ASTM D1655 | 50 Min. 600 Max.* | 50 Min. 600 Max.* |

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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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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