



ExxonMobil Jet Fuel

ExxonMobil Commercial Fuel , Ireland

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

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 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 oth 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 co 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 i 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 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. 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/m3         | 775 to 840 | 775.0 to 840.0                        |
| Freeze Point, °C              | -40 Max    | -47.0 Max                             |
| Viscosity @ -20°C, mm/s       | 8.0 Max.   | 8.000 Max.                            |
| Net Heat of Combustion, MJ/kg | 42.8 Min.  | 42.80 Min.                            |

|  | Jet A                                   | Jet A-1                           |
|--|---|-----------------------------------|
| 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 Abnorm |
| 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.as>  
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