ExxonMobil

ExxonMobil Jet Fuel

ExxonMobil Commercial Fuel , Denmark

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 40ºC or below and does not typically contain static dissipator additive. Jet A-1 must have a freeze point of minus 47ºC 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, ºC	205 Max.	205.0 Max.
Final Boiling Point, ºC	300 Max.	300.0 Max.
Distillation Residue, %	1.5 Max.	1.5 Max.
Distillation Loss, %	1.5 Max.	1.5 Max.
Flash Point, ºC	38 Min.	38.0 Min.
Density @ 15ºC, kg/m3	775 to 840	775.0 to 840.0
Freeze Point, ºC	-40 Max	-47.0 Max

	Jet A	Jet A-1
Viscosity @ -20ºC, 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 % 100ºC	No. 1 Max.	No. 1 Max.
Thermal Stability @ 260ºC:		
-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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