



Turbine Fuel, Kerosene Type, Jet A1

Product: Jet A1 NATO Code F35 Joint Service Designation AVTUR	Applicable standards: DEF STAN 91-091 issue 17	Use: Kerosene type aviation turbine fuel intended for use in aircraft gas turbine engines
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Sales specification	Units	Minimum	Maximum
Contamination (at Point of Manufacture)			
Particulate Contamination or; Cumulative channel particulate count	mg/l	-	1.0
≥ 4 µm	ISO Code	-	19
≥ 6 µm	ISO Code	-	17
≥ 14 µm	ISO Code	-	14
≥ 30 µm	ISO Code	-	13
Composition			
Total Acidity	Mg KOH/g	-	0.015
Aromatic Hydrocarbon Types			
Aromatics - (IP156)	% (v/v)	-	25.0
or; Total Aromatics - (IP436)	% (v/v)	-	26.5
Sulphur, total	% (m/m)	-	0.30
Sulphur, mercaptan or; Doctor Test	% (m/m) -	- Doctor Negative	0.0030 Doctor Negative
Volatility			
Distillation			
10% Recovery	°C	-	205.0
End Point	°C	-	300.0
Residue	% (v/v)	-	1.5
Loss	% (v/v)	-	1.5
Flash Point	°C	38.0	-
Density at 15°C	kg/m3	775.0	840.0
Fluidity			
Freezing Point	°C	-	minus 47.0
Viscosity at 40°C	mm2/s	-	8.000
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Combustion			
Smoke Point	mm	25.0	-
or; Smoke Point and Naphthalenes	mm % (v/v)	18.0 -	- 3.0
Specific Energy	MJ/kg	42.80	-
Corrosion			
Copper Strip	Class	-	1
Thermal Stability	MJ/kg	42.80	-
Test Temperature Tube Rating			
One of the following requirements shall be met:	Class	-	1
(1) Annex B VTR	-	Less than 3. No Peacock (P) or Abnormal (A)	Less than 3. No Peacock (P) or Abnormal (A)
(2) Annex C ITR or Annex D ETR, average over area of 2.5mm ²	Nm	-	85
Pressure Differential	Mm Hg	-	25
Contaminants			
Existent Gum	mg/100ml	-	7
Water Separation Characteristics	MJ/kg	42.80	-
Microseparometer, at point of manufacture			
MSEP Without SDA	Rating	85	-
MSEP With SDA	Rating	70	-
Conductivity			
Electrical Conductivity	pS/m	50	600
Lubricity			
Wear Scar Diameter	mm	-	0.85

Additional Information

1. Visual appearance should be clear, bright and visually free from solid matter and undissolved water at ambient fuel temperature.
2. Conductivity additive may have been used to ensure electrical conductivity meets the specification limits.
3. Health, Safety and Environmental information is given on Material Safety Data Sheet.

All Greenergy fuels are designed for optimum operating and emissions performance.
For further information phone 020 7404 7700.