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

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	ºC	–	205.0
End Point	ºC	–	300.0
Residue	% (v/v)	–	1.5
Loss	% (v/v)	–	1.5
Flash Point	ºC	38.0	–
Density at 15ºC	kg/m3	775.0	840.0
Fluidity			
Freezing Point	ºC	–	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 2.5mm2	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.