

Turbine Fuel, Kerosene Type, Jet A1

Product:	Applicable standards:	Use:		
Jet A1 NATO Code F35 Joint Service Designation AVTUR	DEF STAN 91-091 issue 17	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	mg/l	-	1.0	
or; Cumulative channel particulate count				
	≥ 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	% (m/m)	-	0.0030	
or; Doctor Test	-	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/m ³	775.0	840.0	
Fluidity				
Freezing Point	°C	-	minus 47.0	
Viscosity at 40°C	mm ² /s	-	8.000	
Combustion				
Smoke Point	mm	25.0	-	
or; Smoke Point	mm	18.0	-	
and Naphthalenes	% (v/v)	-	3.0	
Specific Energy	MJ/kg	42.80	-	
Corrosion				
Copper Strip	Class	-	1	
Thermal Stability				
Test Temperature Tube Rating	MJ/kg	42.80	-	
One of the following requirements shall be met:				
	Class	-	1	
(1) Annex B VTR	-	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	

	Units	Minimum	Maximum
Contaminants			
Existent Gum	mg/100ml	-	7
Water Separation Characteristics			
Microseparometer, at point of manufacture	MJ/kg	42.80	-
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 Inver Energy fuels are designed for optimum operating and emissions performance.
For further information phone 020 7404 7700.