



Aviation Turbine Fuel - Jet A-1 Specifications

PQ AT-01

Parameter

Specification

STD. Method

Typical

Appearance:

Visual Appearance	Clear & bright, free from solid matter & undissolved in water at ambient temperature.		Clear & Bright
Colour	Report	ASTM D 156/ ASTM D 6045	25
Particulate Contamination, at point of manufacture, mg/l.	1.0 Max	IP 423 / ASTM D 5452	0.80
Particulate @ POM:			
>4µm (c)	Report	IP 564 / IP 565	2500
>6µm (c)			950
>14µm (c)			99
>21µm (c)			22
>25µm (c)			15
>30µm (c)			10
Composition:			
Total Acidity, mg KOH / gm	0.015 Max	ASTM D 3242	0.009
Aromatic Hydrocarbon Types:			
Aromatics % v/v,	25 Max	IP 156/ASTM D 1319	18.5
Total Aromatics % v/v	26.5 Max	IP 436/ASTM D 6379	18.5
Sulphur, Total % m/m	0.3 Max	ASTM D 4294	0.25
Sulphur Mercaptan % m/m	0.003 Max	ASTM D 3227	0.002
Refining Component @ POM:			
Hydro processed component, % v/v	Report	IP 423 / ASTM D 5452	-
Severly hydro processed comp., % v/v			35
Volatility:			
Distillation - IBP DEG.C,	-	ASTM D 86	155
Fuel recovered 10% by vol at C	205 Max.	-	171
Fuel recovered 50% by vol at C			195
Fuel recovered 90% by vol at C			233
Final boiling point C			254
Residue % Volume			1
Loss % Volume			1
Flash point deg. C			42
Density @ 15 Deg. C kg/m ³			799
Fluidity:			
Freezing point, C	-47 Max	IP 16/ASTM D 2386	- 52
Kin. Viscosity at -20 C, mm ² /s	8.00 Max	IP 71/ASTM D 445	4.1
Combustion:			
Smoke point, mm	19 Min	ASTM D 1322/ IP 57	24
And Napthalene, % vol	3 Max.	ASTM 1840	2.3
Specific energy MJ/kg, Min	42.8	Annex C	43.27
Corrosion:			
Cu strip for 2 hrs @ 100 deg. C	Not worse than No: 1	ASTM D 130	No: 1
Thermal Stability (JFTOT):			
Test Temperature, C	Min 260	IP 323 / ASTM D 3241	Zero, no peacock
Tube Rating, visual	<3 (no peacock) or abnormal color deposit		
Pressure Difference, mmHg	25 max.		
Contaminants:			
Existent Gum w/Air, mg/100 ml	7 Max.	IP 131/ASTM D 381	2.1
Water reaction characteristics			
Micro separator rating @ POM	1b. Max		24
MSEP without SDA or	85 Min.	ASTM D 3948	2.3
MSEP without SDA	70 Min.		43.27
Conductivity:			
Electrical Conductivity PS/m	50 Min. - 600 Max.	IP 274/ASTM D 2624	75 @ 30 deg. C
Lubricity:			
Wear Scar Diameter, mm	0.85 Max.	ASTM D 5001	0.63

PACKAGING - STORAGE (Safety Measures): Product is delivered only in clean suitable means of transportation, each lot being accompanied by quality and quantity certificates. Quality is guaranteed for 3 (three) months starting from producing date. As product is inflammable, usual caution measures of fire prevention have to be taken when handling and storing this product.