



SPECIFICATION STANDARD

Jet A-1

These specifications are for information purposes only and shall not be binding upon the Seller. The seller will bear no liability for delivering product/s that doesn't conform to these specifications.

PROPERTY	UNITS	LIMIT	METHOD
<u>APPEARANCE</u>			
Visual Appearance	--	Clear, Bright & visually free from solid matter & un-dissolved water at ambient fuel temperature	VISUAL
Colour, Saybolt	--	Report	ASTM D6045 / D156
Particulate contamination at point of manufacture	mg/L	Max 1.0	ASTM D5452
<u>COMPOSITION</u>			
Total Acidity	mg KOH/g	Max 0.015	ASTM D3242
Aromatics	% v/v	25.0 Max	ASTM D1319
Or Total Aromatics	% v/v	26.5 Max	ASTM D6379
Sulfur, Total	% m/m	Max 0.30	ASTM D4294 / D5453
Sulfur, Mercaptan	% m/m	Max 0.0030	ASTM D3227
<u>COMPONENTS AT THIS POINT OF MANUFACTURE</u>			
Non Hydroprocessed Components	% v/v	Report	
Severely Hydroprocessed Components	% v/v	Report	
Synthetic Components	% v/v	Report	
<u>VOLATILITY</u>			
<u>Distillation:</u>			ASTM D86 / ASTM D2887
Initial Boiling Point	°C	Report	
10% Recovery	°C	Max 205.0	



PROPERTY	UNITS	LIMIT	METHOD
50% Recovery	°C	Report	
90% Recovery	°C	Report	
End Point	°C	Max 300.0	
Residue	% v/v	Max 1.5	
Loss	% v/v	Max 1.5	
Flash Point	°C	Min 38.0	IP 170 / ASTM D93 (Procedure A)
Density @ 15°C	kg/m³	775.0 Min to 840.0 Max	ASTM D4052
<u>FLUIDITY</u>			
Freezing Point	°C	Max minus 47.0	ASTM D2386 / D7153
Viscosity at minus 20°C	mm²/s	Max 8.000	ASTM D445
<u>COMBUSTION</u>			
Smoke Point	mm	Min 18.0	ASTM D1322
and Naphthalenes	% v/v	Max 3.0	ASTM D1840
Specific Energy, Net	MJ/kg	Min 42.80	ASTM D3338
<u>CORROSION</u>			
Copper Strip (2hr ± 5min @ 100°C ± 1°C)	Class	Max 1	ASTM D130
<u>STABILITY</u>			
Thermal Stability, JFTOT			ASTM D3241
Test Temperature	°C	Min 260	
Tube Rating Visual (ANNEX A1-VTR)	--	Less than 3 No Peacock (P) or Abnormal (A)	
Filter Pressure Differential	mm Hg	Max 25	
<u>CONTAMINANTS</u>			
Existent Gum (Air)	mg/100 ml	Max 7	IP 540



PROPERTY	UNITS	LIMIT	METHOD
Microseparator at Point of Manufacture MSEP With SDA	Rating	Min 70	ASTM D3948
<u>CONDUCTIVITY</u>			
Electrical Conductivity	pS/m	50 Min to 600 Max	ASTM D2624
Conductivity Temperature	°C	Report	
<u>*LUBRICITY</u>			
Wear Scar Diameter	mm	Max 0.85	ASTM D5001
Static Dissipator Additive, Stadis 450: RDE/A/621	mg/l	Max 3.0	Calc
Antioxidant Additive: RDE/A/609	mg/l	24 Max	Calc

It is certified that the samples have been tested using the test methods stated and that the batch represented by the samples conforms with DEF-STAN 91-091 Issue 14 & AFQRJOS Checklist Issue 33.

*Lubricity test applies only to fuels whose composition is made up of a) less than 5% non-hydroprocessed components and at least 20% severely hydroprocessed components or b) includes synthesized fuel components.

Fame not measured. Risk assessed in accordance with JIG Bulletin 106.

No other additive added beside mentioned above.