


<b>SEYCHELLES PETROLEUM COMPANY LIMITED</b>		<b>FORM</b>	
ISSUE: 4	DATE: 28/09/2013	REVISION No.: 3	Doc.No: F 740 001 Q
TITLE: <b>Refined petroleum product quality specifications</b>	DEPT./SECTION: <b>Technical</b>	PREPARED BY: <b>TM</b>	APPROVED BY: <b>CEO</b> 

### Jet A1

Test Description	Units	Specifications	Test methods
<b>Appearance</b>			
Particulate contaminant	Mg/l	1.0	D 5452
Visual		Clear, bright and visually free from solid matter and dissolved water at ambient temperature	
Colour, Saybolt		Report	D156-02el
<b>Composition</b>			
Total Acidity	mg KOH/g	0.015 max	D3242-05
Aromatics	% vol	25.0 max	D1319-03el
Sulphur	% mass	0.30 max	D4294-03
Sulphur, mercaptan	% mass	0.0030 max	D3227-04a
Hydroprocessed components in batch	% vol	Report	
Severely hydroprocessed components	% vol	Report	
<b>Volatility</b>			
Distillation at 102.0 kPa			
IBP	°C	Report	D86-07
Volume recovered, 10%	°C	205.0 max	D86-07
Volume recovered, 20%	°C	Report	D86-07
Volume recovered, 50 %	°C	Report	D86-07
Volume recovered, 90 %	°C	Report	D86-07
End Point	°C	300.0 max	D86-07
Residue	% vol	1.5 max	D86-07
Loss	% vol	1.5 max	D86-07

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Flash Point	°C	38.0 min	IP 170
Density at 15 °C	Kg/m <sup>3</sup>	775.0 – 840.0	D4052
<b>Fluidity</b>			
Freezing point	°C	-47.0 max	D2386-06
Viscosity at -20°C	cSt (mm <sup>2</sup> /s)	8.000 max	D445-06
<b>Combustion</b>			
Specific Energy, net	MJ/Kg	42.80 min	D3338-05
Smoke Point	mm	25.0 min	D1322-97el
<b>Corrosion</b>			
Corrosion, copper strip (2 hours ± 5 min at 100 °C)	-	1 max	D130
<b>Stability</b>			
Thermal Stability (JFTOT) Control Temperature	°C	260 min	D3241-06
Filter pressure, differential	mm Hg	25.0 max	D3241-06
Tube Deposit Rating	-	Less than 3, no "Peacock" or "Abnormal" color deposits	D3241-06
<b>Contaminants</b>			
Existent Gum	Mg/100ml	7 max	IP540
Micro separometer (MSEP-A), rating			
Fuel with static Dissipator Addictive		70 min	D3948-05
Fuel; without Static Dissipator Addictive		85 min	D3948-05
<b>Conductivity</b>			
Electrical Conductivity		50(min) to 600(max)	D2624-O6a
<b>Additives</b>			
Antioxidant, RDE/A/609	Mg/l		

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In Hydroprocessed & Synthetic fuels (Mandatory)		17.0 (min) to 24.0 (max)	
In Non-hydroprocessed Fuels (Optional)		24.0 (max)	
Metal Deactivator	Mg/l	5.7 max	
Static Dissipator, Stadis 450®	Mg/l	3.0 max	
First Doping	Mg/l		
Re-doping	Mg/l		
Corrosion inhibitor	Mg/l		
Lubricity improver	Mg/l		
Boole wear scar diameter		0.85	D5001
Fuel; System Icing Inhibitor (FSII)	% vol		

**Note: Product shall be FAME free**

***Product must meet specifications to conform to latest issue of defense standards (DEF STAN 91-91), latest edition of ASTM D1655 and the requirements of the latest issue of the AFQRJOS checklist.***