

SEYCHELLES PETROLEUM COMPANY LIMITED		FORM	
ISSUE: 7	DATE: 04.01.2023	REVISION No.: 6	Doc.No: F 740 001 Q
TITLE: Refined petroleum product quality specifications	DEPT./SECTION: Quality	PREPARED BY: QAM	APPROVED BY: CEO

Jet A1

Test Description	Units	Specifications	Test methods
Visual Appearance		Clear, bright and visually free from solid matter and dissolved water at ambient temperature	
Particulate contaminant	Mg/l	1.0	D 5452
Colour		Report	D156 or D6045
Composition			
Total Acidity	mg KOH/g	0.015 max	D3242-05
Aromatics or Total aromatics, % V/V	% vol	25.0 max 26.5MAX	D1319 D6379
Sulphur	% mass	0.30 max	D4294
Sulphur, mercaptan	% mass	0.0030 max	D3227-04a
Hydroprocessed components in batch	% vol	Report	
Severely hydroprocessed components	% vol	Report	
Volatility			
Distillation at 102.0 kPa			
IBP	°C	Report	D86
Volume recovered, 10%	°C	205.0 max	D86
Volume recovered, 20%	°C	Report	D86
Volume recovered, 50 %	°C	Report	D86
Volume recovered, 90 %	°C	Report	D86
End Point	°C	300.0 max	D86
Residue	% vol	1.5 max	D86
Loss	% vol	1.5 max	D86
Flash Point	°C	38.0 min	IP 170

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Density at 15 °C	Kg/m ³	775.0 – 840.0	D4052
Fluidity			
Freezing point	°C	-47.0 max	D2386
Viscosity at -20°C	cSt (mm ² /s)	8.00 max	D445
Combustion			
Specific Energy, net	MJ/Kg	42.80 min	D3338
Smoke Point	mm	25.0 min	D1322
Corrosion			
Corrosion, copper strip (2 hours ± 5 min at 100 °C)	-	1 max	D130
Stability			
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
Contaminants			
Existent Gum	Mg/100ml	7 max	IP540
Micro separometer (MSEP-A), rating			
Fuel with static Dissipator Addictive		85 min	D7224
Fuel; without Static Dissipator Addictive		88 min	D8073
Conductivity			
Electrical Conductivity	pS/m	50(min) to 600(max)	D2624
Additives			
Antioxidant, RDE/A/609	Mg/l		
In Hydroprocessed & Synthetic fuels (Mandatory)		17.0 (min) to 24.0 (max)	
In Non-hydroprocessed Fuels			

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(Optional)		24.0 (max)	
Metal Deactivator			
Static Dissipator, Stadis 450®	Mg/l	5.7 max	
First Doping	Mg/l	3.0 max	
Re-doping	Mg/l		
Corrosion inhibitor	Mg/l		
Lubricity improver	Mg/l		
Boole wear scar diameter	Mg/l	0.85	D5001
Fuel; System Icing Inhibitor (FSII)	% vol	50 mg/kg	D7797,IP583 IP585. IP 590.IP599

Note: Fatty acid methyl ester (FAME) maximum permissible level shall be 50 mg/kg and test methods shall be D7797/IP583, IP585d, IP590, and IP599

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.