

AVIATION TURBINE FUEL JET A1³

USE: AS FUEL FOR JET ENGINES

PROPERTY	MU	LIMITS		TEST METHOD
		Min.	Max.	
APPEARANCE				
Visual appearance		Clear, bright and visually free from solid matter and undissolved water at ambient fuel temperature		ASTM D 4176-04(14)– procedure 1
Colour		Report		ASTM D 156-15 ¹ / ASTM 6045-12
Particulate contamination, at point of manufacture	mg/l	-	1	ASTM D 5452-12 ¹
Particulate, cumulative channel particle counts	No/ml			IP 565
≥ 4 µm(c)			Report	
≥ 6 µm(c)			Report	
≥ 14 µm(c)			Report	
≥ 21 µm(c)			Report	
≥ 25 µm(c)			Report	
≥ 30 µm(c)			Report	
COMPOSITION				
Total acidity	mg KOH/g	-	0,015	ASTM D 3242-11 ¹
Aromatics	% (v/v)	-	25	ASTM D 1319-15 ¹
Or Total Aromatics	% (v/v)	-	26.5	ASTM D 6379-11 ¹
Sulphur, Total	% (m/m)	-	0,30	ASTM D 2622-16 ¹ / ASTM D 5453-16 ¹
Sulphur, Mercaptan	% (m/m)	-	0,0030	ASTM D 3227-16 ¹
Refinery Components, at point of manufacture:				
Non Hydroprocessed Components	% (v/v)		Report	
Mildly Hydroprocessed Components	% (v/v)		Report	
Severely Hydroprocessed Components	% (v/v)		Report	AFQRJOS – Issue 29/October 2016
Synthetic Components	% (v/v)		Report	
VOLATILITY				
Distillation				ASTM D 86-16a ¹ / SR EN ISO 3405:11 ¹
Initial Boiling Point	°C		Report	
Fuel Recovered				
10 % (v/v)	°C	-	205	
50 % (v/v)	°C		Report	
90 % (v/v)	°C		Report	
End Point	°C	-	300	
Residue	% (v/v)	-	1,5	
Loss	% (v/v)	-	1,5	
Flash point, TAG	°C	40	-	ASTM D 56-16a
Density at 15 °C	kg/m ³	775	840	ASTM D 1298-12b / ASTM D 4052-15 ¹ SR EN ISO 3675:02 ¹ / SR EN ISO 3675:02/ C91-05 ¹ / SR EN ISO 12185:02 ¹
FLUIDITY				
Freezing point	°C	-	-47	ASTM D 2386-15e1 ASTM D 7153-15e1 / IP 529 15 ¹

Kinematic viscosity at - 20 °C	cSt (mm ² /s)	-	8	SR EN ISO 3104:02 ¹ / SR EN ISO 3104:02/AC:02 ¹ / ASTM D 445-15a
COMBUSTION				
Specific Energy, net	MJ/kg	42.80	-	ASTM D 3338 ¹ /D 3338M-09(14)e ¹
	kcal/kg	10,200	-	
Smoke Point	mm	25	-	ASTM D 1322-15e ¹
CORROSION				
Corrosion, Copper strip, clasification (2 hours +/- 5min at 100°C +/-1 °C)		-	Class 1	ASTM D 130-12 ¹ / SR EN ISO 2160-03 ¹
STABILITY				
Thermal Stability (JFTOT)				
Control temperature	°C	260		
Filter Pressure Differential	mmHg	-	25	ASTM D 3241-16 ¹
Tube Depositing Rating (visual)		-	<3	
CONTAMINANTS				
Existent Gum	mg/100ml	-	7	ASTM D 381-12 ¹ / SR EN ISO 6246:00 ¹ IP 540-08(14) ¹
Microseparometer (MSEP), rating, Fuel with Static Dissipator Additive		70	-	ASTM D 3948-14 ¹
CONDUCTIVITY				
Electrical conductivity	pS/m	50	600 ²	ASTM D 2624-15 ¹ / SR ISO 6297:02 ¹ see AFQRJOS, Issue 29 / October 2016, Note 20
ADDITIVES				
The product is additivated with:				
- Static Dissipator (Stadis 450) type RDE/A/621	mg/l	-	3	According to Unit notification
- Antioxidant, Ionol CP (2,6-ditertiary-butyl-4-methyl phenol), tip RDE/A/607	mg/l	17	24	

NOTES: **1)** Accredited test by RENAR **2)** at delivery, after electrical conductivity additive injection **3)** The product meets all the requirements of check-list AFQRJOS 29/October.2016 and ASTM D 1655.

Quality control: control is done on lot.

It is certified that the samples have been tested using the Test Methods stated and that the Batch represented by the samples conforms with ASTM D 1655 (latest issue) and AFQRJOS Checklist Issue 29.

Each batch will have max. 2000 tones for delivery in tank wagons or tank capacity for pipelines. The lot will have product of same type. During testing, the product must comply with all parameters depicted in standard specification for corresponding product/type. If not, the batch is rejected.

Sampling procedure: according to SR EN ISO 3170:2004 / C91:05 / ASTM D 4057-12

Informations about handling, transportation and storage: according to "Safety Data Sheet" FDS-2.4 T.

Quality-Environment-Occupational Health and Safety Integrated Management System is certified according to the following standards:

- ISO 9001:2008
- ISO 14001:2004
- BS OHSAS 18001:2007

The test lab is accredited by RENAR, in compliance with SR EN ISO/CEI 17025:2005.

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