

**QUALITY CERTIFICATE  
AVIATION TURBINE FUEL JET A-1**

مواصفات  
كبروسين الطيران

**CENTRAL LABORATORY  
GENERAL CO. OF HOMS REFINERY**

BATCH No .....  
TEST CERTIFICATE No.....  
INSTALLATION .....JET A-1.....  
SAMPLING DATE .....

DATE .....  
TANK No.....  
TIME .....

PROPERTY	LIMITS	TEST METHOD		RESULT
		IP	ASTM	
<b>APPEARANCE</b>				
Visual Appearance	Clear, Bright and visually, free from solid matter		Visual	
Colour	Report		D-156	
Particulate Contamination , at point of manufacture mg/l	Max 1.0	423	D-5452	
<b>COMPOSITION</b>				
Total acidity mgKOH/g	Max 0.015	354	D-3242	
Aromatics % V/V	Max 25	156	D-1319	
Sulphur total % Wt	Max 0.30	107or336	D-1266 or 4294	
Sulphur Mercaptan %Wt Or Doctor Test	Max 0.0030	342 30	D-3227 D-4952	
<b>VOLATILITY</b>				
Distillation:		123	D-86	
-Initial Boiling Point, °C, Fuel Recovered	Report			
-10% Vol. at °C	Max 205			
-50% Vol. at °C	Report			
-90% Vol. at °C	Report			
-End point °C	Max 300			
-Residue % Vol.	Max 1.5			
-Loss % Vol.	Max 1.5			
Flash point °C	Min 38	170or303	D-3828	
Density at 15°C Kg/m <sup>3</sup>	Min 775 to max 840	160or365	D-1298 or 4052	
<b>FLUIDITY</b>				
Freezing point °C	Max -47	16 or 435	D-2386 or 5972	
Viscosity Kinematic @-20°C CSt	Max 8.0	71	D-445	
<b>COMBUSTION</b>				
Specific Energy, net, MJ/kg	Min 42.8	381or355	D4529or3338	
Smoke point mm	Min 25	57	D-1322	
<b>CORROSION</b>				
Copper strip Classification, (2hrs +/- 5 min @100°C +/- 1°C)	Max 1.0	154	D-130	
<b>STABILITY</b> : Thermal stability (JFTOT) control Temp. 260°C				
Filter pressure differential mm Hg	Max 25	323	D-3241	
Tube deposit rating (visual)	Less than 3, no peacock or Abnormal colour deposits			
<b>CONTAMINATES</b>				
Existing Gum With Air mg/100ml	Max 7.0	131	D-381	
Water Reaction Interface Rating (MSEP), rating fuel With Static Dissipator Additive (SDA)	Max 1b		D-1094	
(MSEP), rating fuel without Static Dissipator Additive (SDA)	Min. 70		D-3948	
(MSEP), rating fuel without Static Dissipator Additive (SDA)	Min. 85			
<b>CONDUCTIVITY</b>				
Electrical conductivity, at / 18/ °C ps/m	Min 50 to Max 450	274	D-2624	
<b>ADDITIVES</b>				
Static Dissipator Additives (SDA) mg/L Stadis 450	Max 3.0			

1-The fuel straight run additives free \_ not hydrotreated / Wet treated (Mercox sweetening)

2- This specification meet all requirement of DEF STAN 91-91 ISSUE 5

3-And meet aviation fuel quality requirements for jointly operated systems (AFQRJOS), issue 20 March 2005