



# Attock Refinery Limited

MIL-DTL-83133J Turbine Fuel, Aviation, Kerosene Type NATO F-34 (JP-8)

JP-8

Sr.No.	Test Description	Unit	Test Method	Specifications	Min / Max
1	Color, Saybolt	-	D156	Report	-
2	Particulate Contamination	mg/L	D5452	1.0	Max.
	Filtration Time	Minutes		15.0	Max.
3	Particulate, ISO Code and Individual Channel count		IP565		
	≥4 μm ( c )	-		Report	-
	≥6 μm 9 ( c )	-		Report	-
	≥14 μm ( c )	-		Report	-
	≥21 μm ( c )	-		Report	-
	≥25 μm ( c )	-		Report	-
	≥30 μm ( c )	-		Report	-
4	Total Acidity	mg KOH/gm	D3242	0.015	Max.
5	Aromatics	% v/v	D1319	25	Max.
6	Hydrogen content	mass percent	D3343	13.4	Min.
7	Sulfur Total	% m/m	D4294	0.30	Max.
8	Mercaptan Sulfur	% m/m	D3227	0.0020	Max.
9	Refinery Components at point of manufacture		-		
	Non Hydroprocessed Components	% v/v		Report	-
	Mildly Hydroprocessed Components	% v/v		Report	-
	Severely Hydroprocessed Components	% v/v		Report	-
	Synthetic Components	% v/v	Report	-	
10	Fatty Acid Methyl Ester (FAME)	mg/Kg	D7797	50	Max.
11	Distillation		D86 / D7345		
	IBP			Report	-
	10% Vol rec			205	Max.
	50% Vol rec			Report	-
	90% Vol rec			Report	-
	End Point			300	Max.
	Residue	% v/v		1.5	Max.
Loss	% v/v	1.5	Max.		
12	Flash Point	°C	D56 /D93/ IP170	38	Min.

13	Density at 15°C	Kg/L	D1298 / D4052	0.775	Min.
				0.840	Max.
	Gravity, API at 60°F	-	D1298 / D4052	37	Min.
				51	Max.
14	Freezing Point	°C	D2386	- 47	Max.
15	Viscosity at -20°C	cSt	D445 / D7042	8	Max.
16	Specific Energy, net	MJ/Kg	D3338	42.80	Min.
17	Smoke Point	mm	D1322	19	Min.
18	Naphthalenes	% v/v	D1840	3.0	Max.
19	Corrosion, Copper strip, classification (2 hrs at 100 °C)	-	D130	1	Max.
20	Thermal Stability (JFTOT)				
	Control Temperature	°C	D3241	260	Min.
	Filter Pressure Differential,	mm Hg		25	Max.
	Tube Rating (Visual),	-		Less than 3	
Peacock or Abnormal color deposits	-	None		-	
21	Existent Gum	mg/100ml	D381	7	Max.
22	Water reaction interface rating	-	D1094	1b	Max.
23	Water separometer Index (Cl/LI)	-	D3948	80	Min.
24	Electrical Conductivity	pS/m	D2624	300 min to 600 max	-