

ATTOCK REFINERY LIMITED

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

Sr. No.	Test Description	Unit	Test Method	Specifications	Min / Max
1	Workmanship	Report	Visual	Clear & Bright	-
2	Color, Saybolt	-	D156	Report	-
3	Particulate Contamination	mg/L	D5452	1.0	Max.
	Filtration Time	Minutes		15.0	Max.
4	Particulate, ISO Code and Individual Channel count				
	≥4 μm (c)	-	IP565	19	Max
	≥6 μm (c)	-		17	Max
	≥14 μm (c)	-		14	Max
	≥30 μm (c)	-		13	Max
5	Total Acidity	mg KOH/gm	D3242	0.015	Max.
6	Aromatics	Vol %	D1319	25.0	Max.
7	Hydrogen content	mass percent	D3343	13.40	Min.
8	Sulfur Total	mass percent	D4294	0.30	Max.
9	Mercaptan Sulfur	mass percent	D3227	0.0020	Max.
10	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	-
11	Fatty Acid Methyl Ester (FAME)	mg/Kg	D7797	50	Max.

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12	Distillation				
	IBP	°C	D86 / D7345	Report	-
	10% Vol recovery			205	Max.
	50% Vol recovery			Report	-
	90% Vol recovery			Report	-
	End Point			300	Max.
	Residue	% v/v		1.5	Max.
	Loss	% v/v		1.5	Max.
13	Flash Point	°C	D56 /D93/ IP170	38	Min.
14	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.
15	Freezing Point	°C	D2386	- 47	Max.
16	Viscosity at -20°C	cSt	D445 / D7042	8	Max.
17	Specific Energy, net	MJ/Kg	D3338	42.80	Min.
18	Smoke Point	mm	D1322	19	Min.
19	Naphthalenes	% v/v	D1840	3.0	Max.
20	Corrosion, Copper strip, classification (2 hrs. at 100 °C)	-	D130	1	Max.
21	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	-
22	Fuel system icing inhibitor,	Vol Percent	ASTM D5006	0.07 min to 0.10 max	-
23	Existent Gum	mg/100ml	D381	7	Max.
24	Water reaction interface rating	-	D1094	1b	Max.
25	Water separometer Index (CI/LI)	-	D3948	80	Min.



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26	Static Dissipator Additive, Stadis450	mg/l	-	3.0	MAX
27	Electrical Conductivity	pS/m	D2624	300 min to 600 max	-

Workmanship: The finished fuel shall be visually free from undissolved water, sediment, or suspended matter and shall be clear and bright. Refer to ASTM D6986. In case of dispute, the fuel shall be clear and bright at 21 °C (70 °F)