SPECIFICATIONS (Jet Fuel Grade A1):

Property	Units	Limits		Test Methods	
				ASTM Standards	IP Standards
Appearance		Clear, bright, and visually free from solid matter and undissolved water at ambient temperature.		Visual	
Saybolt color (2)		Report		D 156 D 6045	
Particulate contamination (3) or Particles per channel (4)	mg/l	maximum 1.0		D 5452	IP 423
≥ 4 µm(c) ≥ 6 µm(c) ≥ 14 µm(c) ≥ 21 µm(c) ≥ 25 µm(c) ≥ 30 µm(c)	Particles per channel & ISO code	Channel counts report report report report report	ISO Code maximum 19 maximum 17 maximum 14 report maximum 13		IP 565 IP 577
Total acidity	mg KOH/g	maximum 0.015		D 3242	IP 354
Aromatic hydrocarbon types: (5 y 6) Aromatics or Total Aromatics	% v/v % v/v	maximum 25.0 maximum 26.5		D 1319 D 6379	IP 156 IP 436
Total Sulfur	% m/m	maximum 0.30			IP 336
Sulfur, Mercaptan (7) or Doctor Test	% m/m	maximum 0.0030 Doctor Negative		D 3227	IP 342 IP 30
Refining components, at point of manufacture (8): non-hydro processed components Severely hydro processed components Synthetic components (9)	% v/v % v/v % v/v	report report report			
Distillation (10): Initial Boiling point 10 % V/V recovery 50 % V/V recovery 90 % V/V recovery End Point Residue Loss	°C °C °C °C % v/v % v/v	report maximum 205.0 report report maximum 300.0 maximum 1.5		D 86	IP 123
Flash point	°C	minimum 38.0			
Density at 15 °C	kg/m³	775.0 a 840.0		D 4052	
Freezing point (11)	°C	maximum -47.0		D 2386	
Viscosity at -20 °C	mm²/s	maximum 8.000		D 445	
Smoke point (12) or Smoke point (12) and Naphthalene's	mm mm % v/v	minimum 25.0 minimum 18.0 maximum 3.00		D 1322 D 1322 D 1840	
Specific energy	mj/kg	minimum 42.80		(13)	
Copper corrosion (14)	Class	maximum 1b		D 130	IP 154
Thermal stability (JFTOT) (15): Test temperature tube rating	°C	minimum 260		D 3241	IP 323

Tube evaluation, one of the following requirements shall be met (16) (17): 1) VTR or 2) ITR or ETR, average over area of 2.5 mm Pressure differential	 nm mm Hg	 maximum <3. No peacock (P) or abnormal deposits (A) maximum 85 maximum 25		
Existent Gum	mg/100 ml	maximum 7		IP 540
Water separation characteristics at point of manufacture (refinery): (18) Microrespirometer (MSEP) without SDA or Microrespirometer (MSEP) with SDA		 minimum 85 minimum 70	D 3948	
Water separation characteristics downstream of the point of manufacture (refinery): (18) Microrespirometer (MSEP) Microrespirometer (MSEP)		 minimum 85 minimum 70	 D 7224 D 8073	 IP 624
Electrical conductivity (19) (20)	ps/m	50 a 600	D 2624	IP 274
Lubricity (21)	mm	maximum 0.85	D 5001	
FAME content (22) (23)	mg/kg	Less than 5.0		P 585 IP 590 IP 599
DRA content (23) (24)	µg/l	nil	D 7872	
Additives (25)		(25)		