

## Jet A1 fuel Specification

<b>COMPOSITION</b> Appearance Colour, Saybolt Acidity, Total (mg KOH/g) Aromatics (vol %) Sulphur, Total (wt %)  Sulphur, Mercaptan (wt %) OR Doctor Test	C&B (1) Report (2) Max. 0.10 Max. 25.0 Max. 0.25,  Max. 0.0030 (3) Negative (3)	Visual D156, D6045 D3242, IP 354 D1319, IP 156, GOST R 52063 D1266, D1552, D2622, D4294, D5453, IP107, IP 243, IP 336, IP 373, IP 447, GOST R 51947, GOST R 51859 D3227, IP 342, GOST R 52030 D4952, IP 30
<b>VOLATILITY</b> Distillation Temperature: 10% Recovery (°C) 50% Recovery (°C) 90% Recovery (°C) Final BP (°C) Distillation Residue (vol %) Distillation Loss (vol %) Flash Point (°C) Density @ 15°C (kg/m3)	Max. 205.0 Report Report Max. 300.0 Max. 1.5 Max. 1.5 Min. 38.0 775.0 - 840.0	D86, IP 123     D56 (4), D3828, IP170 D1298, D4052, IP 160, IP 365, GOST R 51069
<b>FLUIDITY</b> Freezing Point (°C) Viscosity @ -20°C (cSt)	Max. -47.0 (5) Max. 8	D2386, D5972, D 7153, IP 16, IP 435, IP 529 D445, IP 71
<b>COMBUSTION</b> Net Heat of Combustion (MJ/kg) Smoke Point (mm) OR Smoke Point (mm) AND Naphthalenes (vol %)	Min. 42.80 (6) Min. 25 Min. 19 Max. 3	D3338, D4529, D4809, IP 12, IP 355 D1322, IP 57 D1322, IP57 D1840
<b>CORROSION</b> Copper Strip (2h @ 100°C)	Max. No.1	D130, IP 154
<b>THERMAL STABILITY</b> JFTOT 6P @ 260°C (mm Hg) Tube Rating (Visual)	Max. 25 Max. <3 (7)	D3241, IP 123
<b>CONTAMINANTS</b> Existent Gum Water Reaction Interface Rating MSEP Rating Fuel without SDA Fuel with SDA Particulates (mg/dm3)	Max. 7 (8) Max. 1b Min. 85 Min. 70 Max. 1.0 (2)	D381, IP 131 D1094  D5452, IP423
<b>OTHER</b> Conductivity (pS/m) Without SDA BOCLE Wear Scar Diameter (mm)	50-600 Max. 10 Max. 0.85 (9)	D2624, IP 274, GOST 25950 D5001
<b>ADDITIVES</b> Antioxidant Static Dissipator Lubricity Improver	Optional (24 mg/L max) Optional (10) Optional (11)	

COMPOSITION

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JET A-1 KEROSENE

TEST  
METHOD  
ASTM

TEST METHOD IP

APPEARANCE

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C & B (1)

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ACIDITY, TOTAL (MG KOH/G)	Max.	0.015	D3242	35 4
AROMATICS (VOL %)	Max.	25.0	D1319	15 6
OR TOTAL AROMATICS (VOL %)	Max.	26.5	-	43 6
SULPHUR, TOTAL (WT %)	Max.	0.30	D1266, D1552,	107, 243, 336,
SULPHUR, MERCAPTAN (WT %)	Max.	0.0030	D3227	34 2
OR DOCTOR TEST	-	Negative	D4952	3 0
H/P COMPONENTS (VOL%)	-	Report	-	-
SEVERELY H/P COMPONENTS (VOL%) (2)	-	Report	-	-
VOLATILITY	-	-	-	-
DISTILLATION TEMPERATURE:	-	-	D8 6	12 3
INITIAL BP (°C)		Report	-	-
10% RECOVERY (°C)	Max.	205.0	-	-
50% RECOVERY (°C)	Max.	Report	-	-
90% RECOVERY (°C)	Max.	Report	-	-
FINAL BP (°C)	Max.	300.0	-	-
DISTILLATION RESIDUE (VOL %)	Max.	1.5	-	-
DISTILLATION LOSS (VOL %)	Max.	1.5	-	-
FLASH POINT (°C)	Min.	38.0	D56, D3828	170, 303
DENSITY @ 15°C (KG/M3)		775.0-840.0	D1298, D4052	160, 365
FLUIDITY	-	-	-	-
FREEZING POINT (°C)	Max.	-47.0	D2386, D5972	1 6
VISCOSITY @ -20°C (CST)	Max.	8.000	D445	7 1
COMBUSTION	-	-	-	-
NET HEAT OF COMB. (MJ/KG)	MIN.	42.80	D3338, D4529,	12, 381, 355