

## Selected Specification Properties of Jet Fuels

Fuel	Jet A	Jet A-1	TS-1	Jet B
Specification	ASTM 1655	DEF STAN 91-91	GOST 10227	CGSB-3.22
Acidity, mg KOH/g	0.10	0.015	0.7 (mg KOH/100ml)	0.10
Aromatics, % vol, max	25	25.0	22 (% mass)	25.0
Sulfur, mass %	0.30	0.30	0.25	0.40
Sulfur, mercaptan, mass%	0.003	0.003	0.005	0.003
Distillation C:	-	-	-	-
Initial boiling point	-	Report	150	Report
10% recovered, max	205	205	165	Report
50% recovered, max	Report	Report	195	min 125;max190
90% recovered, max	Report	Report	230	Report
End Point	300	300	250	270
Vapour Pressure, kPa, max	-	-	-	21
Flash Point, C, min	38	38	28	-
Density, 15 C, kg/m <sup>3</sup>	775-840	775-840	min <u>774@20 C</u>	750-801
Freezing Point, C, max	-40	-47.0	-50 (chilling point)	-51
Viscosity, -20 C, mm <sup>2</sup> /sec, max	8	8.0	<u>8.0@-40 C</u>	-
Net Heat of Combustion, MJ/kg, min	42.8	42.8	42.9	42.8
Smoke Point, mm, min	18	19.0	25	20
Naphthalenes, vol%, max	3.0	3.00	-	3.0
Copper corrosion, <u>2hr@100 C</u> , max rating	No.1	No.1	Pass ( <u>3hr@100 C</u> )	No.1
Thermal Stability:	-	-	-	-
Filter Pressure drop, mm Hg, max	25	25	-	25
Visual Tube rating, max	<3	<3	-	<3
Static Test <u>4hr@150 C</u> , mg/100 ml, max	-	-	18	-
Existent Gum, mg/100 ml, max	7	7	5	-