

Jet Fuel (JP54) Colonial Specification

Jet fuel is a type of aviation fuel designed for use in aircraft powered by gas-turbine engines. It is clear to straw colored. The most common fuels are Jet A and Jet A-1 which are produced to an internationally standardized set of specifications. The only other jet fuel that is commonly used in civilian turbine engine-powered aviation is called Jet B and is used for its enhanced cold-weather performance.

	PROPERTIES	RATE	RESULT	METHOD
COMPOSITION				
01.	APPEARANCE		CLEAR BRIGHT	VISUAL
02.	ACIDITY, TOTAL	MG KOH/G	0.1	D 974 / 3242
03.	AROMATICS	% VOL	22	D 1318 / 1319
04.	TOTAL SULFUR	% WT	0.30	D 1266 / 1552 / 2622
05.	DOCTOR TEST		NEGATIVE	D 4952
06.	SULFUR MERCAPTAN	% WT	0.003	D 3227
07.	COLOUR, SAYBOLT			D 156

	PROPERTIES	RATE	RESULT	METHOD
VOLATILITY				
01.	DISTILLATION TEMPERATURE	M/M %	CLEAR BRIGHT	D 86 / 96
	INITIAL		123	
	RECOVERY 10%		240	
	20%		REPORT	
	50%		REPORT	
	80%		REPORT	
	FINAL BP POINT		300	
02.	DISTILLATION RESIDUE	°C	1.5	D 86 / 96
03.	DISTILLATION LOSS	°C	1.5	D 86 / 96
04.	FLASH POINT	°C	42	D 56 / 3828
05.	GRAVITY API @ 60 F	°C	37 – 54	D 287 / 1298 / 4052
06.	DENSITY @ 15 °C KG/M2	°F	776* - 840	D 287 / 1298 / 4052

	PROPERTIES	RATE	RESULT	METHOD
FLUIDITY				
01.	FREEZING POINT	°C	-40	D 2256 / 2386
02.	VISCOSITY @ -20°	°C	8.0	D 445

	PROPERTIES	RATE	RESULT	METHOD
COMBUSTION				
01.	NET HEAT OF COMBUSTION	NET. MJ/KG	18.4*	D 1405/ 3338 / 4808
02.	LUMINOMETER	NO.	45*	D 1740
03.	OR SMOKE POINT	MM	*19	D 1322
04.	NAPHTALENES	% VOL	3	D 1840
05.	PROPERTY UNIT		REPORT	

	PROPERTIES	RATE	RESULT	METHOD
CORROSION				
01.	COPPER STRIP	2 HRS 100°C	1	D 150
	SILVER STRIP	4 HRS 50°C	1	D 130

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STABILITY

01.	FILTER PRESSURE, DIFFERENTIAL	MM HG	25	D 3241
02.	TUBE DEPOSIT RATting		3	VISULA
03.	THERMAL STABILITY CONTROL	°C	280	

CONTAMINANTS

01.	EXISTANT GUM	MG/100 ML	7	D 381
02.	PARTICULATES	MG/GAL		D 2276
03.	WATER REACTION INTERFACE		16	D 1094
04.	FUEL WITH STATIC DISSIPATER ADDTITIVE		75*	D 3984
05.	FUEL WITHOUT STATIC DISSIPATER ADDTITIVE		85*	
06.	FILTARTION TIME	MIN.	REPORT	MIL-T 5624 P
07.	TOTAL SOLIDS		REPORT	MIL-T 5624 P

ADDITIVES

01.	ANTIOXIDANT IN HYDROPRESSED FUEL	MG/L	17* - 24	
02.	ANTIOXYDANT NON HYDRO PROCESSED FUEL	MG/L	8.0	
03.	STATIC DISSIPATER FIRST DOPING ASA 3 MG	MG/L	1	
04.	STADIS 450	MG/L	3	