



# U. S. Oil & Refining Co.

3001 Marshall Avenue, Tacoma, Washington, 98421 (253) 383-1651

## Product Specification Aviation Turbine Fuel, JP-8 (NATO F-34)

Properties	ASTM Method	Specifications	
		Min.	Max
Appearance, rating	D4176	C&B	1
Color, Saybolt	D156	Report	
Total Acidity, mg KOH/g	D3242		0.015
Aromatic, volume %	D1319		25.0
Naphthalenes, volume %	D1840		3.0
Mercaptan sulfur, mass % or Doctor Test	D3227		0.002 or NEG
Sulfur, mass %	D4294		0.30
Hydrogen Content, mass %	D3701	13.4	
Distillation	D86		
IBP, °C		Report	
10% recovered, °C			205
20% recovered, °C		Report	
50% recovered, °C		Report	
90% recovered, °C		Report	
Final Boiling Point, °C			300
Residue, vol. %			1.5
Loss, vol. %			1.5
Flash Point, PMCC, °C	D93	38	
Gravity, °API, reference only	D4052	36.8	51.0
Density @ 15°C, kg/m <sup>3</sup>	D4052	775	840
Freezing Point, °C	D7153		-47
Viscosity @ -20°C, mm <sup>2</sup> /s (cSt)	D7042		8.0
Net Heat of Combustion, MJ/Kg	D3338	42.8	
Smoke Point, mm	D1322	19.0	
Corrosion, Copper Strip @ 100°C	D130		1B
Thermal Stability @ 275°C			
Change in pressure, mm of Hg	D3241		25
Tube Rating, VTR	D3241A1		<3
Existent Gum, mg/100 ml	D381		7
Particulate, mg/L	D5452		1.0
Filtration Time, minutes			15
Water Reaction, Interface Rating	D1094		1b
Microseparometer, rating, with Anti-Oxidant	D3948	90	
Microseparometer, rating, with all additives	D3948	Report	
Antioxidant, UOP 344, mg/L			24.0
Fuel System Icing Inhibitor, volume %	D5006	0.07	0.10
Corrosion Inhibitor, Unicor J, mg/L		9	22.5
Fuel Electrical Conductivity, pS/m	D2624	150	600
Cetane Index	D976	Report	

This product conforms to the requirements of MIL-DTL-83133H2.