

Jet Fuel Colonial Grade 54 (JP54) Specifications

<u>PROPERTY</u>	<u>UNIT</u>	<u>RESULT</u>	<u>TEST-IP</u>	<u>METHOD</u>	<u>ASTM</u>
ADDITIVES					
Antioxidant in hydro processed fuel	mg/l	min	17		
	mg/l	max	24		
Antioxidant non hydro processed fuel	mg/l	min	24		
Static dissipater first doping ASA-3	mg/l	min	1		
Stadis 450	mg/l	min	3		
COMBUSTION PROPERTIES					
Specific energy, net	mj/lkg	min	18.4		D4808
Smoke point	mm	min	19		D1322
Luminomitter number		min	45		D1740
Naphthalenes	% vol	max	3		D1840
COMPOSITION					
Total Acidity	mg KOH/g	max	0.01	354	D3242
Aromatics	% vol	max	22	158	D1318
Sulphur, Total	% mass	max	0.30	107	D1266/2622
Sulphur, Mercaptan	% mass	max	0.003	342	D3227
Doctor, test				30	D4952
VOLATILITY					
Initial Boiling Point	Centigrade	max	Report	123	D96
10% vol at C			240		
20% vol at C			Report		
50% vol at C			Report		
80% vol at C			Report		
End point	Centigrade	max	300		
Recovered residuals	% vol	max	1.5		
Loss	% vol	max	1.5		
Flash Point	Centigrade	max	42	170/303	D56/3828
Density at 15 C	kg/m ²	min/max	776/840	180/385	D1298
LOW TEMPERATURE					
Freezing Point	Centigrade	max	-40	15	D2256
CORROSION					
Corrosion, copper (2hrs at 100C)		max	1	154	D130
Corrosion, silver (4hrs at 50C)		max	1	227	
STABILITY					
Thermal stability control, Temp. 280C					
Filter pressure, differential mm.Hg		max	323		
Tube deposit rating (visual)		max	25	<3	
CONTAMINATIONS					
Existent Gum	mg/100ml	max	7	131	D361
Water reaction, interface rating		max	16	258	D1084
Fuel with static dissipater additives		min	75		D3648
Fuel without static dissipater additive		min	85		
CONDUCTIVITY					
Electrical conductivity	p ³ /m		Report		