

**CHEMICAL COMPOSITION OF RUSSIAN AVIATION KEROSENE COLONIAL GRADE 54 JET FUEL (JP54)**

<b>PROPERTY</b>	<b>UNIT</b>	<b>RESULT</b>	<b>TEST-IP</b>	<b>METHOD</b>	<b>ASTM</b>
<b>ADDITIVES</b>					
Antioxidant in hydro processed fuel	mg/I	min/max	17/24		
Antioxidant non hydro processed fuel	mg/I	min	24		
Static dissipater first doping ASA-3	mg/I	min	1		
Stadis 450	mg/I	min	3		
<b>COMBUSTION PROPERTIES</b>					
Specific energy, net	mJ/kg	min	18.4		D4808
Smoke point	mm	min	19		D1322
Luminometer number		min	45		D1740
Naphthalene's	% vol	max	3		D1840
<b>COMPOSITION</b>					
Total Acidity	mg KOH/g			354	D3242
Aromatics	% vol	max	0.01	158	D1318
Sulphur, Total	%mass	max	22	107	D1266/2
Sulphur, Mercaptan	%mass	max	0.30	342	D3227
Doctor, test		max	0.003	30	D4952
<b>VOLATILITY</b>					
Initial Boiling Point	Centigrade	max	Report	123	D96
10% vol at C			240		
20% vol at C			Report		
50% vol at C	Centigrade		Report		
80% vol at C			Report		
End point		max	300		
Recovered residuals	% vol	max	1.5		
Loss	% vol	max	1.5		
Flash Point	Centigrade	max	42	170/303	D56/382
Density at 15 C	kg/m <sup>2</sup>	min/max	776/840	180/385	D1298
<b>LOW TEMPERATURE</b>					
Freezing Point	Centigrade	max	-40	15	D2256
<b>CORROSION</b>					
Corrosion, copper (2hrs at 100C)		max	1	154	D130
Corrosion, silver (4hrs at 50C)		max	1	227	
<b>STABILITY</b>					
Thermal stability control, Temp. 280C	mm/Hg	max	323		
Filter pressure, differential		max	25	<3	
Tube deposit rating (visual)					
<b>CONTAMINATIONS</b>					
Existent Gum		max	7		D361
Water reaction, interface rating		max	16	131	D1084
Fuel with static dissipater additives	mg/100ml	min	75	258	D3648
Fuel without static dissipater additive		min	85		
<b>CONDUCTIVITY</b>					
Electrical conductivity	p3/m		Report		