

SPECIFICATION OF RUSSIAN AVIATION KEROSENE COLONIAL GRADE 54

COMPONENT	UNIT	MIN	MAX	METHOD
A: ADDITIVES:				
Antioxidant in hydro processed fuel	Mg/l	17	24	
Antioxidant non hydro processed fuel	Mg/l		24	
Static dissipater first doping ASA-3	Mg/l	24	1	
Stadis 450	Mg/l		3	
Combustion Properties:				
Specific Energy, Net	Mj/kg	18.4		D4808
Smoke Point	mm	19		D1322
Luminomitter Number		45		D1740
Naphthalenes	% volume		3	D1840
Properties Unit		Result Test IP		ASTM
B: COMPOSITION:				
Appearance	Clear Bright			Visual
Total Acidity	mg KOH/g		0.01	D974/3242
Aromatics	% vol		22	D1318/1319
Sulphur, Total	% mass		0.30	D1266/2622
Sulphur, mercaptan	% mass		0.003	D3227
Colour, Saybolt				D156
Doctor, Test	Negative			D4952
C: VOLATILY				
Initial Boiling Point	Centigrade		Report	D86/96
10% vol at C			240	
20% vol at C			Report	
50% vol at C			Report	
80% vol at C			Report	
End Point	Centigrade		300	
Recovered Residuals	% vol		1.5	
Loss	% vol		1.5	
Flash Point	Centigrade		42	D56/3828
Density at 15 C	Kg/m ²	776/840	180/385	D1298



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Low Temperature Properties:				
Freezing Point	Centigrade		- 40	D2256
Viscosity @ -20°	°C	8.0		D455
D: CORROSION				
Corrosion, Copper (2 hrs at 100C)			1	D130
Corrosion, Silver (4hrs at 50C)			1	D150
E: STABILITY				
Thermal Stability Control, Temp. 280C			323	
Filter Pressure, Differential mm.Hg			25	
Tube Deposit Rating (Visual)			< 3	
F: CONTAMINATIONS				
Existent Gum	mg/100ml		7	D361
Water Reaction, Interface Rating			16	D1084
Fuel with Static dissipater additives	75			D3684
Fuel without Static dissipater additives	85			
G: CONDUCTIVITY				
Electrical Conductivity	P ³ /3		Report	

- * Summer from March to October (PP – 5.0 degrees C)
- * Summer from March to October (CP – 0.0 degrees C)
- * Winter from November to February (PP – 10.0 degrees C)
- * Winter from November to February (CP – 5.0 degrees C)

