

SPECIFICATIONS of 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)