



Z Energy Ltd

Technical Data Sheet

Avgas 100LL

Fuel for Piston Engine Aircraft

Description

Z Energy Avgas 100LL is a gasoline fuel for piston engine aircraft. Avgas 100LL has lean mixture minimum octane rating of 99.6 while its rich mixture octane rating exceeds 130.

Avgas 100LL, also known as Avgas 100/130 Low Lead, has a maximum lead content of 0.56 gm/litre. It is dyed blue for ease of identification.

Z Energy Avgas 100LL is produced to stringent manufacturing specifications and is checked at defined points in the supply chain to ensure it is clean, dry and free from contamination.

Z Energy Avgas 100LL complies with the following standards:

- British Military Standard DEF STAN 91-090
- US Civil Specification ASTM D 910
- NATO Code F-18

Health & Safety

Avgas is classified according to Hazardous Substances (Classifications) Regulation 2001 as 3.1A - Flammable liquid, Very High Hazard.

Avgas contains tetraethyl lead.

Avoid contact with the skin and eyes, and breathing vapours or mist.

For further guidance on product health and safety refer to the appropriate Z Energy Safety Data Sheet.

Typical Physical Characteristics

| Description | Units | Methods ASTM / Other | Typical |
|----------------------|------------------------------|-------------------------|----------------|
| Appearance | | VISUAL | Clear & Bright |
| Density@ 15°C | kg/L | D1298 / D4052 / IP160 | 0.710 |
| Colour | | D2392 / IP17 | Blue |
| Knock Rating | Lean Mixture Rich Mixture | ON PN | 102 132 |
| Tetraethyl Lead | g Pb /L | D3341/D5059 | 0.5 |
| Specific Energy | MJ/kg | IP12 / D3338 / D4809 | 44 |
| Reid Vapour Pressure | kPa | D323 | 42 |

These characteristics are typical of current production. Whilst future production will conform to Z Energy and legislated specifications, variations in these characteristics may occur.