

COMMERCIAL AVIATION (PISTON)

Avgas 100LL

Aviation Gasoline — Low Lead

PRIMARY SPEC

ASTM D910 / DEF STAN 91-090

NATO CODE

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DOCUMENT

TDS · Rev. 2026-07

PRODUCT OVERVIEW

Avgas 100LL is the primary aviation gasoline for piston-engine aircraft. It is dyed blue and meets ASTM D910 / DEF STAN 91-090 octane and vapor-pressure requirements.

Typical applications: General aviation · Flight schools · Piston twins · Light aircraft

KEY TECHNICAL PROPERTIES

PROPERTY	LIMIT / VALUE	TEST METHOD
Specification	ASTM D910 / DEF STAN 91-090	—
Octane Number (Motor / Lean)	100 min	ASTM D2700
Octane Number (Research / Rich)	130 min	ASTM D2699
Lead Content (max)	0.56 g/L	ASTM D5059
Color	Blue (dyed)	Visual
Flash Point (min)	−40°C (−40°F)	—
Freezing Point (max)	−58°C (−72°F)	ASTM D2386
Reid Vapor Pressure	38.0–49.0 kPa	ASTM D323
Distillation End Point (max)	170°C	ASTM D86
Aromatic Content (max)	25% vol	ASTM D1319

QUALITY & SUPPLY NOTES

Highly flammable. Store and handle per aviation gasoline safety procedures. CoA provided with deliveries.

Values shown are typical specification limits for guidance. Batch CoA prevails. Suat Fuels supplies certified product with full documentation at 2,200+ airports worldwide.