



Product Application Sheet

76 Competition 100 Racing Gasoline

100 OCTANE RACING GASOLINE

76 Competition 100 Racing Gasoline is a high quality unleaded gasoline designed especially for the performance enthusiast who wants a high octane fuel. It is suitable for both racing purposes and high performance street vehicles. It will not harm catalytic converters or affect the oxygen sensors on late model engines. It has an octane rating (AKI) of 100 and can be used in engines with compression ratios up to 12 to 1 (with hardened valve seats).

76 Competition 100 Racing Gasoline meets all State and Federal requirements for CARB Phase II and EPA reformulated gasoline (RFG). It contains MTBE which is an oxygenate. This product may be sold and used in all fifty states.

TYPICAL APPLICATIONS

High performance vehicles such as formula cars and stock cars with up to an 12:1 compression ratio with hardened valve seats.

Pre-1975 high compression ratio engine muscle cars (when used in conjunction with a valve recession additive).

Luxury cars that demand a high octane fuel.

Late model marine engines requiring unleaded fuel.

Gasoline-fueled vehicles requiring unleaded gasoline, especially:

- Fuel injected cars
- Modern muscle cars
- Sports cars
- Turbocharged cars
- Performance motorcycles

MEETS REQUIREMENTS:

ASTM D4814 Standard Specification for
Automotive Spark-Ignition Engine Fuel,
Volatility Class A or B
CARB Reformulated Gasoline
EPA Reformulated Gasoline

OUTSTANDING FEATURES

- ◆ 100 AKI Octane Number
- ◆ Contains no lead additives or alcohols⁽¹⁾
- ◆ Low vapor pressure for protection against vapor lock
- ◆ Controlled mid-range volatility for excellent warm-up, acceleration, and driveability⁽²⁾
- ◆ Keeps carburetors and fuel injectors clean
- ◆ Resists gum formation
- ◆ Burns cleanly to resist deposit buildup
- ◆ Controlled composition and reproducible quality permits precise engine tuning for maximum performance
- ◆ Oxidation and corrosion inhibited for longer shelf life

⁽¹⁾ **Caution:** Premature failure of valve seats can occur in some older model cars and in heavy-duty vehicles running under heavy-duty conditions for extended periods on unleaded gasoline. Use of a valve recession additive is recommended in the absence of hardened valve seats.

⁽²⁾ **Note:** Use of this product alone in street vehicles may result in hard starting in cold weather.

DESCRIPTION

76 Competition 100 Racing Gasoline is formulated from high octane gasoline blend stocks and selected additives. It is highly resistant to detonation under high speed, high output conditions. Its low vapor pressure quality provides protection against vapor lock. Mid-range volatility is carefully controlled to give excellent warm-up, acceleration, and driveability. The composition of this fuel is carefully controlled to deliver consistent, reproducible quality, allowing precise engine tuning for maximum performance.

76 Competition 100 Racing Gasoline burns cleanly, leaving little or no deposits, allowing maximum engine power. The high quality stocks used in this gasoline make it very stable and resistant to gum formation. A multifunctional additive package provides carburetor and fuel injector detergency and minimizes the formation of intake valve deposits. Antioxidants and corrosion inhibitors promote stability and longer shelf life. This gasoline does not contain any lead additives or alcohols.

TYPICAL INSPECTION TESTS:

Product Code	00231
Density, g/cm ³ @ 15°C (60°F)	0.748
Gravity, °API	57.5
Color	Blue
Octane Number, AKI, (R+M)/2	100
Octane Number, Motor	94
Octane Number, Research	106
Octane Number, Road	101
Reid Vapor Pressure, psi	6.8
Temperature @ V/L = 6, °C (°F)	63 (145)
Distillation, °C (°F) @ % Evap.	
Initial Boiling Point	36 (97)
10	63 (145)
50	101 (214)
90	118 (244)
End Point	138 (280)
Copper Corrosion, ASTM D130	1A
Doctor Test, ASTM D4952	Negative
Existent Gum, ASTM D381, mg/100 ml	1.0
Oxidation Stability, ASTM D525, minutes	1,440+
Aromatics, vol %	28
Lead, g/gal	< 0.05
Oxygen, wt %	2.7
Phosphorus, g/gal	< 0.005
Sulfur, wt %	0
Viscosity, cSt @ 16°C (60°F)	0.7