



## Product Application Sheet

# 76 Competition 110 Racing Gasoline

### 110 OCTANE RACING GASOLINE

*76 Competition 110 Racing Gasoline is a high octane, high quality leaded fuel designed exclusively for racing applications at sanctioned racing events. It has an octane rating (AKI) of 110 and a Motor Octane Number of 106. It is an approved fuel for competition by all major sanctioning bodies.*

*76 Competition 110 Racing Gasoline is the "Official Fuel of NASCAR<sup>®</sup>," and has been for over 45 years. It has been tested in engines with compression ratios up to 16 to 1 operating at 6,000 to 9,000 rpm.*

#### TYPICAL APPLICATIONS

All race car events where gasoline is used as a fuel.

Gasoline-fueled race vehicles such as:

- Drag racing cars
- Formula cars
- Sports cars
- Stock cars
- Motorcycles

**CAUTION: FOR OFF-HIGHWAY USE AT SANCTIONED RACING EVENTS ONLY.**

#### MEETS REQUIREMENTS:

ASTM D4814 Standard Specification for Automotive Spark-Ignition Engine Fuel, Volatility Class A

#### OUTSTANDING FEATURES

- ◆ 110 AKI Octane Number
- ◆ 106 Motor Octane Number
- ◆ Contains no alcohols or oxygenates
- ◆ Low vapor pressure for protection against vapor lock
- ◆ Controlled mid-range volatility for excellent throttle response and acceleration
- ◆ Detergency to keep carburetors clean
- ◆ Phosphorus additive to control surface ignition
- ◆ Resists gum formation
- ◆ Burns cleanly to resist deposit buildup
- ◆ Controlled composition and reproducible quality permits precise engine tuning for maximum performance on the track
- ◆ Oxidation and corrosion inhibited for longer shelf life<sup>(1)</sup>

<sup>(1)</sup> **Note:** 76 Competition 110 Racing Gasoline should be stored in a cool place in metal containers only. It contains components that are sensitive to sunlight. Plastic jugs, especially clear plastic jugs, are **not** acceptable for storage.

**DESCRIPTION**

76 Competition 110 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 throttle response and acceleration. The composition of this fuel is carefully controlled to deliver consistent, reproducible quality, allowing precise engine tuning for maximum performance on the track.

76 Competition 110 Racing Gasoline burns cleanly, leaving little or no deposits, allowing maximum engine power. A phosphorus additive controls surface ignition. The high quality stocks used in this gasoline make it very stable and resistant to gum formation. This assures cleaner carburetors, intake manifolds, and valves. A detergent additive further helps to keep carburetors clean. Antioxidants and corrosion inhibitors promote stability and longer shelf life. This gasoline does not contain any alcohols or other oxygenates.

**TYPICAL INSPECTION TESTS:**

Product Code .....	00290
Density, g/cm <sup>3</sup> @ 15°C (60°F) .....	0.728
Gravity, °API .....	63
Color .....	Red
Octane Number, AKI, (R+M)/2 .....	110
Octane Number, Motor .....	106
Octane Number, Research .....	115
Reid Vapor Pressure, psi .....	6.5
Temperature @ V/L = 6, °C (°F) .....	63 (145)
Distillation, °C (°F) @ % Evap.	
Initial Boiling Point .....	36 (96)
10 .....	67 (152)
50 .....	102 (216)
90 .....	108 (226)
End Point .....	135 (275)
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+
Lead, g/gal .....	< 4.0
Sulfur, wt % .....	0
Viscosity, cSt @ 16°C (60°F) .....	0.7