



## Product Information Sheet

# SUNOCO MAXIMAL Racing Gasoline

SUNOCO MAXIMAL is a leaded racing gasoline designed for exceptionally high performance two- and four-stroke competition engines generating high cylinder pressures. It has a very narrow distillation curve and a low final boiling point to help improve thermal combustion efficiency at high engine speeds. Sunoco Maximal's distinctive fast burn characteristics provide more complete combustion than slower burning fuels in applications which operate in excess of 10,000 rpm. Due to the high tetraethyl lead (TEL) content, it should not be used in applications utilising oxygen sensors or catalytic converters.

### TYPICAL APPLICATIONS

- All sanctioned events allowing leaded racing gasoline. High performance engines, turbo charged vehicles and high revving motorcycles.
- Turbocharged cars and motorcycles.
- Performance Motorcycles

### MEETS REQUIREMENTS

None

### OUTSTANDING FEATURES

- 118 Research Octane Numbers
- 114 Motor Octane Numbers
- Contains lead
- Narrow distillation curve improves combustion at high revving speeds
- Extremely fast burning.
- Low vapour pressure for protection against vapour lock
- Controlled mid-range volatility for excellent warm-up, acceleration and driveability
- Keeps carburettors and fuel injectors clean
- Resists gum formation
- Burns extremely cleanly to resist deposit build up
- Oxidation and corrosion inhibited for longer shelf life
- Complete conformity and quality allows precise engine tuning.



## DESCRIPTION

SUNOCO MAXIMAL leaded racing gasoline is formulated from high octane blend stocks and selected additives. It has a substantially increased protection against detonation compared to normal 'pump' fuel. It's distinct fast burning properties and high octane makes it suitable for engines operating in excess of 10,000 rpm

The manufacturing process of this fuel is designed to provide a fuel that is 100% repeatable and that will perform the same batch after batch. Every batch is tested to meet SUNOCO's stringent quality control procedures to allow precise engine tuning for maximum performance.

SUNOCO MAXIMAL burns extremely cleanly and therefore leaves little or no deposits, allowing maximum engine power for the duration of the engine life. The high quality stocks used in the SUNOCO MAXIMAL make the fuel very stable and resistant to gum formation. A multifunctional additive package provides carburettor and fuel injector detergency and minimises the formation of intake valve deposits. Antioxidants and corrosion inhibitors promote stability and longer shelf life.

## SUNOCO Maximal TYPICAL INSPECTION TESTS

Property	Units	Method	Typical Figure
Density at 15C	kg/litre	ASTM D4052	0.700
Reid Vapour Pressure (RVP)	lbs	ASTM D323	6
Research Octane	RON	ASTM D2699	118
Motor Octane	MON	ASTM D2700	114
Lead	g/l	ASTM D3237	<1.5
Nitrogen	% m/m	ASTM D3228	Conforms
Peroxides and Nitrooxides	ppm	ASTM D3703	Conforms
Benzene	% volume	ASTM D3606	<1
Sulphur	mg/kg	ISO 8754	<5
Initial Boiling Point	°C	ASTM D86	88
10% evaporation	°C	ASTM D86	98
50% evaporation	°C	ASTM D86	109
90% evaporation	°C	ASTM D86	109
Final Boiling Point (FBP)	°C	ASTM D86	112
Colour			Red