



# SHELL Unleaded E10 Petrol

## Commercial Fuel E10 UNLEADED PETROL

### DESCRIPTION

Shell Unleaded E10 Petrol is a high quality unleaded petrol that is formulated with 10% ethanol. This fuel will have a minimum octane of 91 in compliance with federal legislation, but the octane rating will typically be around 94 as a result of the addition of 10% ethanol to the unleaded petrol.

### PERFORMANCE FEATURES

With a Research Octane Number of a minimum of 91 (typically around 94), Shell Unleaded E10 Petrol exceeds the requirements of the Federal Fuels Quality Standards Act (Petrol Determination) for unleaded petrol. This higher octane together with 10% ethanol makes Shell Unleaded E10 Petrol suitable for use in modern knock-sensor vehicles that are 10% ethanol compatible. This fuel contains 10% ethanol which is a cleaner burning, renewable fuel component that helps to reduce Greenhouse gas emissions.

### SUMMARY OF BENEFITS

Ethanol is a cleaner burning, renewable fuel component that helps to reduce Greenhouse gas emissions.

### APPLICATIONS

Shell Unleaded E10 Petrol can be used in most motor vehicle petrol applications where the vehicle requires petrol with an octane minimum of 91 RON and where the vehicle is suitable for a 10% ethanol-blend fuel.

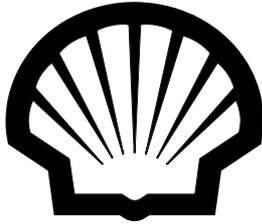
To determine if your vehicle can operate on fuel containing 10% ethanol, visit the Federal Chamber of Automotive Industries (FCAI) web site <http://www.fcai.com.au/> or check with your vehicle manufacturer. Where engines require the use of Leaded Petrol to protect valve seats, a valve seat recession additive must be used with every fill of Shell Unleaded E10 Petrol.

If your vehicle manufacturer recommends a minimum 95 octane, then Shell V-Power or Shell Unleaded 95 should be used.

Shell Unleaded E10 is not suitable for use in any aircraft, marine craft or small engines such as lawnmowers and chainsaws. Care should be taken before using in motorcycles with fibreglass fuel tanks (see your manufacturer for further details).

### HEALTH & SAFETY

Shell Unleaded E10 Petrol is a highly flammable liquid, classified as a Dangerous Goods Class 3 Packaging Group II for transportation purposes. Avoid contact with the skin and eyes, and breathing vapours or mists. For further guidance on product health and safety refer to the appropriate Shell Material Safety Data Sheet.



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### TYPICAL CHARACTERISTICS

DESCRIPTION	UNITS	METHODS	TYPICAL
Colour	-	Visual	Purple → Red*
Octane Number	-	ASTM D2699	94 [91 min]
Density	kg/m <sup>3</sup>	ASTM D4052	735.0
Distillation	-	ASTM D86	
Final Boiling Point	°C	-	196
Silver Corrosion (3 hr @ 50 °C)	-	D4814 Rev B	1
Copper Corrosion (3 hr @ 100 °C)	-	ASTM D130	1a
Ethanol	% vol.		9.7 [10 max)
Benzene	% vol.	ASTM D3606	0.6
Sulphur	ppm	ASTM D1266	150 max

\* The members of the Australian Institute of Petroleum (AIP) have decided to change the colour of the base unleaded petrol (ULP) from purple/bronze to red/orange. This change is expected to commence on 1 October 2012 and will take about 12 months to convert the entire supply chain to the red/orange coloured ULP, which will be seen in Unleaded E10.

#### Document Information

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