

Unleaded Petrol

Unleaded 91, 95, 98 Octane

Description

Unleaded petrol meets the requirements of the Australian Fuels Quality Standards Act 2000. Unleaded petrols are suitable for use in a variety of spark ignition engines including personal vehicles, motor boats (inboard and outboard), motor bikes, quadbikes and a variety of utility equipment such as generators, chainsaws, lawn mowers and grass trimmers.

Where equipment requires two stroke fuel/oil blends, the equipment manufacturers instructions for oil quality and oil to fuel blend ratio must be followed.

The volatility of Unleaded petrol is varied throughout the year to provide good cold weather starting in winter and to prevent vapour lock in summer for each climatic zone.

Performance Features

- Unleaded petrol comes in various Research Octane Grades – of 91, 95 and 98. Higher octane enables higher performance engines and enhanced efficiency.
- Unleaded petrol the preferred fuel for use in modern high compression spark ignition and knock-sensored vehicles.
Note: many imported and high-performance vehicles are designed to run exclusively on premium fuels with a minimum 95 octane rating. Please check your vehicle manufacturer's manual.

Health, Safety and Environment

- Unleaded 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.
- In areas where volatile substance abuse is known to occur Shell Low Aromatic Fuel (91 Octane) may be a more suitable harm minimisation alternative to regular ULP 91.
- For further guidance on product health and safety is available on the appropriate Safety Data Sheet which can be obtained from the Viva Energy Technical Help Desk or from www.vivaenergy.com.au

Storage

- Drums of fuel should be stored in an upright position under cover protected from rain and direct sunlight, or with drum top covers to prevent ingress of water. Ensure buildings are well ventilated.
- Product in unopened drums should be acceptable for use in a 24 month period. Product stored for longer than 24 months or in containers that have been opened should be checked to verify freedom from water, contamination or degradation.
- Fuel held in opened drums or in vehicles / equipment should be used within a month.

Specifications / Approvals / Recommendations

Viva Energy Petrol is manufactured to meet the specifications of:

- Australian Fuel Quality Standards Act 2000
- Fuel Quality Standard (Petrol) Determination 2019
- Western Australia Environmental Protection (Petrol) Regulations 1999
- Victoria Environment Protection (Vehicle Emissions) Regulations 2003
- New South Wales Protection of the Environment Operations (Clean Air) Amendment Regulation 2010

Typical Physical Characteristics

Properties	Units	Methods	Typical
Colour		Visual	Colourless Pale Yellow
Research Octane Number Unleaded 91 Unleaded 95 Unleaded 98		ASTM D2699	91.0 min 95.0 min 98.0 min
Distillation – Final Boiling Point	°C	ASTM D86	190 (210 max)
Sulphur Unleaded 91 Unleaded 95 Unleaded 98	mg/kg	ASTM D5453	80 (150 max) 26 (50 max) 26 (50 max)
Benzene	% vol.	ASTM D3606	<1.0 max
Copper Corrosion (3 hr @ 100 °C)	-	ASTM D130	1a
Solvent Washed Gum	mg/100mL	ASTM D381	0.5 (5 max)

Technical Help Desk

Phone	1300 134 205
Email	technicalhelpdesk@vivaenergy.com.au