



SHELL AUTOGAS

AUTOMOTIVE LPG FUEL

DESCRIPTION

Autogas is an automotive LPG fuel and is suited for applications such as motor cars, buses, delivery vans, trucks, fork lifts etc that either have been converted for automotive LPG use or have engines that have been designed to operate on automotive LPG. It is a hydrocarbon fuel comprised mainly of propane and butane typically as a 50:50 mixture. The gas is liquefied under moderate pressure and expands approximately 260 times its liquid volume when it is allowed to revert to a vapour. This characteristic enables LPG to be stored as a compact liquid but burnt as a dry gaseous vapour.

Conforms to the Fuel Standard (Autogas) Determination 2003, Amm 13 Dec 2013.

SUMMARY OF BENEFITS

Autogas in automotive applications has the following benefits :

- Lower cost than petrol or diesel operation
- LPG is more environmentally friendly than petrol or diesel
- Engine life is prolonged
- Safety and ease of operation are assured

It is readily available throughout Australia

HEALTH & SAFETY

LPG as a fuel has properties that are inherently different to other liquid fuels and as such has its own unique set of safe handling issues. It is quite safe provided disciplined and safe handling procedures are adopted at all times.

Autogas purchased from service stations should not be used in non-automotive applications such as domestic barbeques or gas powered refrigerators.

TYPICAL CHARACTERISTICS

DESCRIPTION	UNITS	METHODS	TYPICAL
Colour	-	-	Clear (Colourless)
Vapour Pressure (gauge) at 40°C	kPa	ISO 8973	800 min 1530 max
Volatile Residue C ₅ and higher hydrocarbons	mole %	ISO 7941	2.0 max
Residue on Evaporation	Mg/kg	JLPGA-S-03	20 max
Corrosion, Copper Strip	-	ISO 6251	Class 1
Sulphur	mg/kg	ASTM D2784 ASTM D6667	50 max
Dienes	mole %	ISO 7941:1998	0.1 max
Water	-	EN589	No free water
Motor Octane Number	-	EN589 Annex B	90.5 min

Document Information

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