

## Technical Data Sheet

### Unrivalled Fuel Deposit Removal

Fuel deposits can quickly accumulate in the critical working parts of a vehicle, such as injectors, valves and the combustion chamber, under certain driving conditions. These detrimental deposits contribute to a range of vehicle issues such as:

- Loss of engine power
- Lowered fuel economy
- Knocking, rough idling and stalling
- Failed emissions tests on MOTs



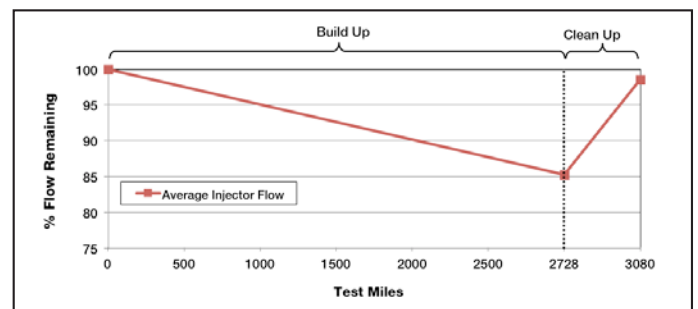
### How Carlube Petrol Total Fuel System Cleaner Works

Carlube Petrol Total Fuel System Cleaner is a powerful formulation containing additives designed to rapidly remove fuel deposits and the associated problems they cause in petrol vehicles. In just one tank of fuel dosed with Carlube Petrol Total Fuel System Cleaner, significant amounts of deposits are removed in a wide range of different petrol vehicles, including older and high mileage models.



Fuel deposits can accumulate in the small nozzle holes of fuel injectors, which can lead to poorer combustion, increased fuel consumption, loss of engine power and increased emissions. Carlube Petrol Total Fuel System Cleaner is proven to maintain the spray pattern of injectors in a vehicle, which is critical in ensuring the correct distribution of fuel within the combustion system, by eradicating the deposits which block injector nozzle holes and prevent the flow of fuel.

Over the course of 2728 miles accumulated on an industry recognised driving cycle (ASTM D5598) on a test vehicle, on average the vehicle injectors were shown to lose 14.8% of their flow due to fuel deposits. After application of Carlube Petrol Total Fuel System Cleaner over 350 miles, equivalent to a single tank of fuel in a typical vehicle, the flow of the injectors was restored to a near perfect state by removing the deposits in the injector nozzles. Restoration of injector flow can restore vehicle power and performance, and reduce the potential for vehicle breakdowns.



Intake valves are one of the components critical to the operation of gasoline combustion engines. The intake valves are essential in ensuring the correct mixture of fuel and air in the combustion chamber. Before the combustion event occurs, the valve must close and seal the cylinder in order to prevent lost energy. The cleanliness of the valves is paramount in order to maintain the correct intake flow past the valves and allow the valves to close properly.



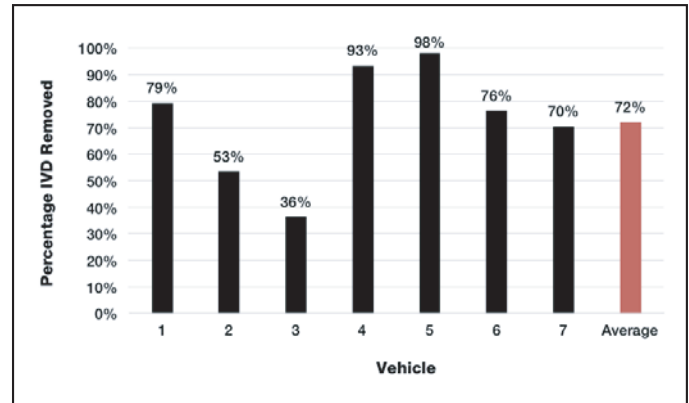


Deposits can form and accumulate on intake valves, and these deposits often can build up to the point where engine operation and performance is adversely affected. A number of variables, such as fuel type, fuel additives, lubricants, engine design, valve temperature, and others contribute to the amount and nature of these deposits.

Carlube Petrol Total Fuel System Cleaner is designed to remove intake valve deposits rapidly and effectively, therefore preventing vehicle running problems, such as knocking, roughly idling and stalling.

Testing across a range of vehicles has proven the benefit of using Carlube Petrol Total Fuel System Cleaner in reducing the levels of intake valve deposits. Across seven vehicles sourced directly from the vehicle market with a range of accumulated mileage, Carlube Petrol Total Fuel System Cleaner was applied for the duration of 300 driven miles, equivalent to one tank of fuel for a typical vehicle.

The results showed that all vehicles showed reduction of intake valve deposits, in some cases over 90% of the deposits present were removed. On average across all seven vehicles, 72% of the deposits on the intake valves were removed.



## Carlube Petrol Total Fuel System Cleaner Benefits Summary

- Rapidly removes harmful fuel deposits on critical working engine parts in a single tank of treated fuel
- Reduces potential for breakdowns related to the fuelling system
- Supports reduction in vehicle emissions
- Helps to restore engine performance towards 'like new' condition
- Assists in reducing fuel consumption

## Product Reference

Size	Part No	Barcode
300ml	QFG300	0000050024704

## Properties

Density @ 15°C	0.869
Flash Point (°C)	74

## Environmental Protection & Safety Precautions

Do not pour used surplus oil down sewers or drains. Dispose of used or surplus oil at your nearest oil-recycling bank. Dispose of empty packs in a responsible manner. Store container in an upright position and secure when transported. Wear goggles if splashing risk. Avoid exposure to oil mist. When using oil do not eat, drink or smoke. Wash hands after use.

## Disclaimer

This Product Information Sheet does not constitute to any extent a fitness for purpose warranty or a quality specification. It is intended to be indicative only of the general characteristics of the product(s) and may not be relied upon (in whole or in part) in substitution of nor as a supplement to any of the information and/or instructions and/or warnings set out on the product(s) and/or on any packaging and/or in the relevant Safety Data Sheet (which is available on request).

Users of a product marked "For Professional Use Only" are deemed to declare and acknowledge for themselves professional levels of skill, knowledge, competence and experience in the selection and use of such product(s).

Product Information Sheets are updated from time to time and inquiries should be made on a regular basis to ensure that this is the latest version available.

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