



*The Ultimate Lubricant*

# 992

## **DESCRIPTION:**

Omega 992 "Power Jet" is a Fuel Injection Booster which is added to both gasoline and diesel cars through the fuel tank at fill-up. It is designed and engineered to restore fuel injector efficiency rapidly so that "as new" performance is attainable. In addition, Omega 992 helps control "vapour lock" (water in the fuel system)

which can cause hard-starting, rough idle and sluggish throttle response.

An added benefit of Omega 992 is that, since the system is introduced through the fuel tank, its special oxidation inhibitors will protect the tank, the fuel line, the fuel pump, the injector itself and also all internal parts of the engine from the onset of rust.

## **SOAKDOWN:**

Although injectors are kept relatively cool during engine operation, the heat "soakdown" on shutting/switching off forms deposits from the fuel on the nozzle itself. These deposits impede and reduce the proper atomization of the fuel flow into the engine cylinder which, in turn, causes loss of power, poor acceleration, rough idling, hard starting and a host of other problems.

(\* Heat soakdown occurs because, when an engine is switched off, the oil pump -which circulates engine oil in and round engine parts -also ceases operating; the cooling fan is switched off; and the engine coolant system (radiator) also is no longer operating. Therefore, immediately an engine is switched off, the latent engine heat "soaks" into the engine and, with no cooling aid, the temperature temporarily increases dramatically before dissipating into the ambient atmosphere).

## **CAUSE OF INJECTOR DEPOSITS:**

The principle source of gasoline injector fouling is the fuel composition; the fouling deposits are mainly gums and coke. This fuel composition effect is attributed to olefins and diolefins in the fuel. These form deposits at temperatures between 90-105°C (162-221°F) - the heat soakdown region!!! The problem can occur, even in new cars, within the first 3,000 to 7,000 miles (4,800 to 11,000 km) of operation.

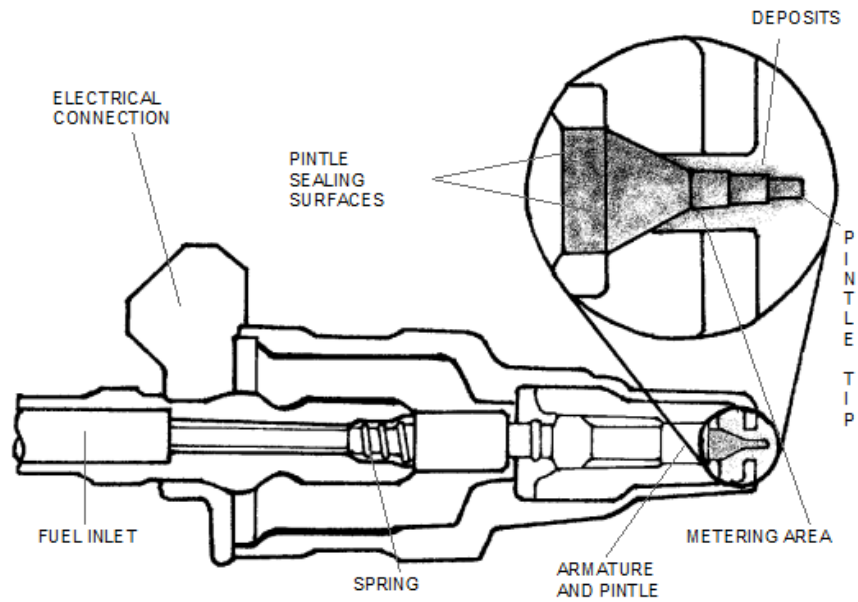
## **EXISTING FUEL INJECTOR DEFICIENCIES:**

Port-type fuel injection has literally taken the automotive world by storm. Current estimates suggest that 90% of new U.S. model cars and 65% of new European models are fitted with fuel injection engines. The Japanese models, due to their export orientation, is adapted to fit different markets, but the trend is unmistakably toward fuel-injected models being in the majority.

Of the types of fuel injectors used, the mechanical type is less prone to injector clogging problems while the most vulnerable is the electronic multipoint injection system.

## **OMEGA 992 "POWER JET":**

At the injector tip, where deposits form in and around the pintle tip (see diagram below), the pressurized flow of Omega 992 "Power Jet" dislodges the deposits and carries these away into the combustion chamber of the engine, to be ignited and burned away -leaving the fuel injector's metering area clean and back within tolerance. By removing the deposits, the vital and precise metering to vaporization is restored and the engine operates "as-new" again.



**APPLICATION:**

Precise measuring of dosage is possible thanks to the special Omega 992 applicator. Omega 992 comes concentrated and dosage rates are therefore economical.

Economy (Compact) cars with fuel capacity of approx. 8 – 10 gallons (30-38 litres)	½ oz.(15ml.) with every fill-up
Medium-sized cars with fuel capacity of approx. 10-18 gallons (38-70 litres)	1 oz.(30ml.) with every fill-up
Large cars and light trucks with fuel capacity of over 20 gallons (76+ litres)	1 oz. (30ml.) to every 16 gallons (60 Litres)

Omega 992 is effective for both fuel injected gasoline (petrol) and diesel vehicles. (All diesel engines use fuel injection).