



# PMK Preventive Maintenance Kit

## #1510 Sledgehammer • Product Data

SledgeHammer! contains the strongest concentrations of detergents and cleaners available, to break through fuel system deposits on fuel injectors, intake valves, ports, and combustion chambers. SledgeHammer! Contains an advanced additive package that helps control the unique deposit forming tendencies of GDI engines. It exceeds the performance requirements of all industry tests including GDI, IVD, PFI, CCD and LTFT tests. Using SledgeHammer! results in increased power, improved acceleration, and measurably lower emission levels. SledgeHammer! is safe for all engines and emission controls. Contains NO alcohol or methanol!

### Chrysler 3.3L Intake Valve and Combustion Chamber Deposit Performance Test

A Chrysler 3.3 liter engine in a Dodge Intrepid vehicle is used to generate intake valve and combustion chamber deposits and to measure and to measure an additive's ability to remove these deposits. The dirty-up cycle is 15,000 miles and the cleanup cycle is one tank of fuel containing SledgeHammer! During the dirty-up stage, all four vehicles run for 15,000 miles on a commercial fuel containing typical gasoline detergent additive. At the end of 15,000 miles, the engine is disassembled and the combustion chamber deposits are measured carefully so that they are not removed.

All four vehicles are restarted and run an additional one tank of gasoline. At the end of the test, the engines are disassembled and the combustion chamber deposits are again measured. Any change in combustion chamber deposits in the engines running on the fuel with the test additive are compared with the results at 15,000 miles.

SledgeHammer! at a dosage of 3230 ppm vol/vol, the dosage that will be delivered by SledgeHammer!, removed 80.8% of the intake valve deposit and 19.6% decrease in overall combustion chamber deposit thickness.

- Cleans injectors, valves & induction components
- Rapidly drives out the toughest deposits
- Improves acceleration
- Restores power
- **Reduces vehicle emissions**
- Reduces octane requirements
- Helps eliminate "carbon rap", knocking, pinging and hesitation
- Protects against corrosion
- Works in extreme temperatures found in today's high-tech engines

## #1101 Fuel Shot • Product Data

Fuel Shot is a friction modifier specifically formulated to be used as a gasoline additive. Fuel Shot reaches critical areas in the upper cylinder of the engine, working to reduce friction in mechanical and fluid ways among the piston, piston rings and cylinder wall having an immediate affect on fuel economy. Fuel Shot helps to reduce sticking of oil control rings, which helps reduce oil derived deposits. This is especially important in GDI engines.

Research has shown that between 40% to 60% of mechanical friction in an engine can be attributed to the piston, ring, and cylinder wall. Over time, Fuel Shot helps to refortify the lubricant carried throughout the engine, leading to even greater fuel economy. Fuel Shot's formula has been proven by Sequence VI-A Engine Dynamometer Tests as well as US Federal Test Procedure and Highway Fuel Economy Tests. In addition, engine wear reduction testing and High Frequency Reciprocating Rig Testing document its performance.

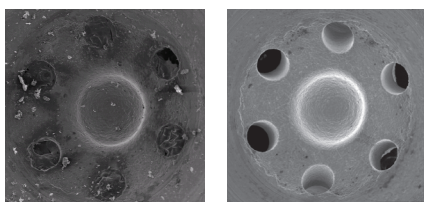
It contains a combination of specially processed base oils, additives and friction modifiers designed to reduce engine friction and viscometric power losses. Fuel Shot's highly advanced nano-technology provides advanced fuel delivered lubrication. The syringe applicator ensures that all of the chemistry is delivered to the fuel tank. Additionally, Fuel Shot can help reduce the vehicle emissions of carbon dioxide, which is a contributor to greenhouse gases and global warming.

- Reduces friction among the piston, piston rings and cylinder wall
- Helps to keep rings free from sticking
- Reaches critical areas in the upper cylinder of the engine
- Improves fuel economy for up to 5,000 miles!
- Helps to refortify the lubricant carried throughout the engine
- Benefits increase with continued use
- **Reduces vehicle emissions of carbon dioxide**

### Product Properties

- Appearance: Clear Amber Liquid
- Odor: Mild amine odor
- Nitrogen (Typical): 0.90%
- Specific Gravity @ 60°F, 15.6°C: 0.890
- Pounds per U.S. Gallon @ 60°F, 15.6°C: 7.41
- Flash Point: 165°F, 74°C
- Pour Point: 0°F, -18°C
- Viscosity @ 104°F, 40°C: 7 cSt

### GDI Injector Nozzle Clean-Up Results



Dirty

Cleaned

### GDI Valve Clean-Up Results



Dirty

Cleaned