

Gasoline Additives

AMSOIL P.I.(R) PERFORMANCE IMPROVER GASOLINE ADDITIVE

Product Code: APICN-EA

Restore lost horsepower, boost fuel economy, and clean your engine in one tank with this powerful, capless-compatible fuel additive.



Product Description

AMSOIL P.i. Performance Improver Gasoline Additive is a concentrated fuel system cleaner that strips away stubborn carbon deposits from injectors, intake valves, and combustion chambers in a single tank of gas. It restores lost horsepower, improves fuel economy, and eliminates the knock and rough idle that come with deposit buildup in gasoline engines.

Every gasoline engine accumulates deposits over time. Carbon builds up on fuel injectors, intake valves, and combustion chamber surfaces, and the effects compound with mileage. GDI engines are especially vulnerable because their injectors sit directly inside the combustion chamber, exposed to extreme heat and pressure. Direct injection typically produces 30 to 40 times more soot than port fuel injection. The result is reduced power, degraded fuel economy, rough idle, hard starts, and pre-ignition knock that forces your engine's knock sensors to retard timing, quietly stealing performance even when you can't hear the knock itself.

RESTORES UP TO 14% HORSEPOWER

Third-party testing on a 2016 Chevrolet Silverado 1500 with a 5.3L V-8 GDI engine and 100,616 miles showed a 14% improvement in horsepower after a single tank of fuel treated with P.i. The engine was disassembled, photographed, and inspected before and after treatment. The before-and-after images of injectors and cylinder heads showed significant deposit removal. That kind of power loss happens gradually, so most drivers never realize how much performance they've given up until it comes back.

RESTORES GDI FUEL INJECTORS TO 100% FLOW RATE

Even minor injector fouling reduces spray pattern precision, which degrades combustion efficiency, increases emissions, and costs you power and fuel economy. AMSOIL P.i. restored GDI fuel injectors to a 100% flow rate after just one tank of treated fuel in ASTM D5598(M) testing using a 2013 Buick Regal test vehicle. This makes P.i. a practical fuel injector cleaner for GDI engines in vehicles like the Chevrolet Silverado, GMC Sierra, Ford F-150 EcoBoost, Toyota Tacoma, Honda Civic, and any other gasoline-powered car or truck running port or direct injection.

CLEANS COMBUSTION CHAMBER DEPOSITS

Carbon deposits in the combustion chamber increase compression ratio and absorb heat during combustion, then release that stored heat during the intake stroke. This raises the likelihood of pre-ignition knock, where the air/fuel mixture ignites before the spark plug fires. Most modern engines compensate by retarding spark timing, which prevents audible knock but reduces power output. P.i. aggressively cleans these combustion chamber deposits, helping restore proper compression, control knock, and reduce the need for costlier higher-octane fuel. It also reduces the possibility of "carbon rap," a condition where deposit buildup is severe enough that the piston physically contacts the cylinder head.

FIGHTS INTAKE VALVE DEPOSITS

Valve deposits alter or restrict airflow patterns in the cylinder and disrupt the balanced air/fuel ratio by absorbing and releasing fuel at the wrong time. They can also cause valve sticking by interfering with the valve stem and guide, which leads to compression loss, misfires, and potential valve failure. P.i. helps keep intake valves clean and moving freely, maintaining proper airflow and sealing.

CAPLESS-COMPATIBLE BOTTLE DESIGN

Many newer vehicles from Ford, GM, Chrysler, and others have replaced traditional screw-on fuel caps with capless fuel filler systems. Most additive bottles cannot open the internal flap or are difficult to remove once inserted. The P.i. bottle is specifically designed to be fully compatible with capless fuel systems, so you can pour and remove it without any hassle.

COMPATIBILITY AND USE

P.i. is safe for use with catalytic converters, oxygen sensors, oxygenated gasoline, and E85 fuel. It is effective in both port fuel injection and gasoline direct injection systems. One 12 oz. bottle treats up to 30 gallons of gasoline. For tanks larger than 30 gallons, use two bottles. Do not exceed two bottles per treatment. Do not use with diesel or two-stroke engines. Add the entire bottle to the tank at fill-up.

SERVICE INTERVAL

For best results, treat your fuel system with P.i. every 4,000 miles to maintain clean injectors, valves, and combustion chambers and prevent deposit-related performance loss from returning.

Frequently Asked Questions

Q1: What vehicles and engines is AMSOIL P.i. Performance Improver Gasoline Additive designed for?

AMSOIL P.i. Performance Improver Gasoline Additive is designed for use in gasoline-powered cars and trucks, including both port fuel injection and gasoline direct injection (GDI) systems. It is also compatible with a wide range of equipment categories including motorcycles, ATVs, UTVs, snowmobiles, marine outboards, PWCs, and heavy-duty on-road and off-road applications. It should not be used with diesel or two-stroke engines.

Q2: How much horsepower does AMSOIL P.i. Performance Improver restore by cleaning fuel system deposits?

In third-party testing on a 2016 Chevrolet Silverado 1500 with a 5.3L V-8 GDI engine and 100,616 miles on the odometer, AMSOIL P.i. restored up to 14% horsepower after a single treatment. The product achieves this by using concentrated detergents that aggressively clean power-robbing deposits from fuel injectors, valves, and the combustion chamber. Actual results may vary depending on the condition of the engine.

Q3: How does AMSOIL P.i. Performance Improver clean GDI fuel injectors and what test data proves it works?

AMSOIL P.i. uses concentrated detergent chemistry to remove stubborn deposits from fuel injectors, restoring proper spray patterns and fuel delivery. Testing conducted using the ASTM D5598(M)-2013 protocol on a Buick Regal test vehicle demonstrated that P.i. restored GDI fuel injectors to a 100% flow rate after just one tank of treated fuel. This makes it effective for addressing the deposit buildup that GDI engines are particularly prone to.

Q4: How does AMSOIL P.i. Performance Improver compare to regular fuel injector cleaners at reducing engine knock and carbon deposits?

AMSOIL P.i. is formulated as a potent, concentrated gasoline performance improver that goes beyond basic fuel injector cleaning. It aggressively cleans the entire fuel system in one tank -- including injectors, valves, and the combustion chamber -- fighting deposits that cause pre-ignition knock, carbon rap (where deposit buildup causes the piston to hit the cylinder head), and compression loss. It also reduces the need for costly higher-octane fuel by removing combustion chamber deposits that raise octane requirements.

Q5: How often should I use AMSOIL P.i. Performance Improver Gasoline Additive and how many gallons does it treat?

AMSOIL recommends using P.i. Performance Improver every 4,000 miles (6,400 km) for best results. Each 12-ounce bottle treats up to 30 gallons of gasoline. Simply add the entire bottle to your fuel tank at fill-up -- the product cleans the entire fuel system in one tank of gasoline.

Q6: Is AMSOIL P.i. Performance Improver compatible with capless fuel systems and safe for direct injection engines?

Yes, AMSOIL P.i. Performance Improver features a bottle design that is fully compatible with capless fuel systems, which are increasingly common on modern vehicles. The product is effective and safe for use in both port fuel injection and gasoline direct injection (GDI) systems. However, it is not compatible with diesel engines or two-stroke engines and should not be used in those applications.

Available Product Codes

| Product Code | Package Size | Unit of Measure |
|--------------|---------------|-----------------|
| APICN-EA | 12 oz. Bottle | Each |
| APICN-CA | 12 oz. Bottle | Case of 12 |

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