

Gasoline Additives

AMSOIL MOTORCYCLE OCTANE BOOST

Product Code: MOBCN-EA



Product Description

AMSOIL Motorcycle Octane Boost increases the octane of gasoline up to three numbers in a single 4-oz. treatment, eliminating engine knock and ping while restoring low-rpm power that knock-detection systems quietly steal from your ride.

High-compression motorcycle engines are sensitive to fuel quality, and premium fuel is not always available. Rural gas stations, single-hose pumps, and regional fuel blends can leave you with lower octane than your engine needs. The result is detonation, that telltale pinging sound that robs power and, left unchecked, can cause real engine damage. This is especially common in air-cooled V-twins and high-performance sportbikes during hot weather, stop-and-go riding, or low-rpm cruising.

INCREASES OCTANE UP TO THREE NUMBERS

One 4-oz. bottle of AMSOIL Motorcycle Octane Boost treats 4 to 6 gallons of gasoline and raises the Research Octane Number (RON) by up to three full numbers. That is three actual octane numbers, not the inflated "points" system some competitors use where they divide by ten to make their claims sound bigger. AMSOIL does not use that approach. If you fill up with 87 AKI regular (roughly 91-92 RON), this product can push it into the 94-95 RON range. For riders on Harley-Davidson Milwaukee-Eight engines, BMW GS adventure bikes, or Ducati twins that call for premium fuel, this is a practical solution when premium is unavailable.

RESTORES LOW-RPM POWER AND THROTTLE RESPONSE

Engine knock is most noticeable at idle and during low-rpm acceleration, particularly in hot conditions. Modern motorcycles use knock-detection systems that retard spark timing and adjust air-to-fuel ratios when detonation is detected. This protects the engine but reduces horsepower and throttle response in the process. Motorcycle Octane Boost raises the knock threshold of the fuel itself, reducing the need for the ECU to pull timing. The result is more consistent power delivery at low rpm, right where you feel it most in traffic and on slow technical roads.

CLEANS COMBUSTION CHAMBERS AND FUEL SYSTEMS

Motorcycle Octane Boost contains active detergents that help maintain combustion chamber and fuel-delivery system cleanliness. Carbon deposits in the combustion chamber can create hot spots that promote pre-ignition, compounding knock issues even with adequate octane. The detergent package in this formula helps prevent that buildup from accumulating between treatments. For a deeper fuel system cleanup, AMSOIL recommends treating fuel with AMSOIL Quickshot, which contains a higher concentration of cleaning agents.

SAFE FOR CATALYTIC CONVERTERS AND OXYGEN SENSORS

At the recommended treat rate, Motorcycle Octane Boost will not harm catalytic converters or oxygen sensors. This matters for street-legal bikes that rely on properly functioning emissions equipment. It is also compatible with all other AMSOIL fuel additives, so you can pair it with Quickshot or other treatments without concern.

APPLICATIONS AND COMPATIBILITY

Motorcycle Octane Boost is recommended for four-stroke air-cooled and liquid-cooled motorcycles from Harley-Davidson, Honda, Yamaha, BMW, Ducati, Triumph, Indian, and all other four-stroke motorcycle manufacturers. It can also be used in off-road applications including ATVs, UTVs, and snowmobiles as an alternative to AMSOIL DOMINATOR Octane Boost.

TREAT RATE

One 4-oz. bottle treats 4 to 6 gallons of gasoline. Add to fuel tank before or during fill-up for best mixing. Clean any spills from painted or metal surfaces immediately, as the formula can stain if left standing.

Frequently Asked Questions

Q1: What vehicles and equipment is AMSOIL Motorcycle Octane Boost designed for?

AMSOIL Motorcycle Octane Boost (MOBCN) is designed for a wide range of gasoline-powered vehicles and equipment, including motorcycles, ATVs, UTVs, snowmobiles, marine outboards, PWCs, auto/light trucks, and heavy-duty on-road and off-road applications, as well as agriculture equipment. Verified users report using it in BMW GS adventure bikes, Indian Challengers, Harley-Davidson M8 engines, and even 2-stroke dirt bikes. It is intended for use with gasoline fuel systems across powersports and beyond.

Q2: How does AMSOIL Motorcycle Octane Boost improve engine power and performance?

AMSOIL Motorcycle Octane Boost increases the octane of gasoline up to three numbers when added to 4-6 gallons of fuel. This helps eliminate performance-robbing and potentially damaging engine knock or ping, particularly during low-rpm operation. By raising the octane level, it reduces the need for knock-detection systems to compensate for engine knock, ensuring maximum low-rpm power and more responsive throttle performance. It also contains detergents that help maintain combustion-chamber and fuel-delivery-system cleanliness for improved efficiency.

Q3: How much does AMSOIL Motorcycle Octane Boost raise octane and what is the recommended treat rate?

AMSOIL Motorcycle Octane Boost increases octane up to three numbers at the recommended treat rate of one 4 oz. bottle per 4-6 gallons of gasoline. This treat rate is calibrated to deliver effective knock and ping elimination while maintaining safe operation. The product is also designed to improve startup performance at this concentration.

Q4: How does AMSOIL Motorcycle Octane Boost compare to just using premium fuel from the gas station?

AMSOIL Motorcycle Octane Boost provides a practical solution when premium or high-octane fuel is unavailable, such as in remote or rural areas where only lower-grade gasoline is sold. It raises octane up to three numbers per 4-6 gallons, helping bridge the gap when premium fuel isn't an option. Additionally, unlike simply switching fuel grades, it contains detergents that actively clean combustion chambers and fuel-delivery systems, providing a cleanliness benefit that pump fuel alone does not offer.

Q5: How often should I use AMSOIL Motorcycle Octane Boost in my motorcycle?

AMSOIL Motorcycle Octane Boost can be added each time you fill up by using one 4 oz. bottle per 4-6 gallons of fuel. It is especially useful when you're filling up with lower-grade gasoline or riding in conditions where engine knock and ping are more likely, such as hot weather or when using fuel from remote stations with limited octane options. Regular use helps maintain combustion-chamber and fuel-delivery-system cleanliness for ongoing efficiency.

Q6: Is AMSOIL Motorcycle Octane Boost safe for catalytic converters and oxygen sensors?

Yes. At the recommended treat rate of one 4 oz. bottle per 4-6 gallons of fuel, AMSOIL Motorcycle Octane Boost does not harm catalytic converters or oxygen sensors. It is formulated to be safe for these emissions-related components while still delivering effective octane enhancement, knock elimination, and fuel-system cleaning benefits.

Available Product Codes

Product Code	Package Size	Unit of Measure
MOBCN-EA	4 oz. Bottle	Each
MOBCN-CA	4 oz. Bottle	Case of 12

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