



## Octane Booster

**Bardahl Octane Booster** is an easy-to-use gasoline additive that increases the octane rating of gasoline. It does not contain lead or aniline and will work in leaded or unleaded gasoline. Due to its unique chemistry, **Bardahl Octane Booster** does not have the highly toxic properties of other well-established octane enhancing products.

### The problem

Many vehicles on the road today were designed to use gasoline's with octane ratings higher than commonly available. When these vehicles use too low octane fuel, engine 'knock' occurs, warning motorists of poor fuel combustion, loss of power and potential engine damage.

Even in vehicles designed to run on lower octane gasoline, after-run and engine 'knock' can occur, due to the build-up of deposits in the combustion chamber.

### The action

Deposits in the combustion chamber, improper timing or too low an octane fuel are all causes of engine 'knock'. Combustion chamber deposits can also result in after-run or continued combustion of gasoline after the engine is shut down.

Periodic tune-up of gasoline spark-ignition engines will assure proper timing of spark plug firing and prevent this cause of engine 'knock'.

Engine deposits can alter the effective compression ratio of an engine as well as be an unwanted source of ignition. Such deposits can cause pre-ignition and detonation. Pre-ignition is ignition of the gasoline/air mixture before the spark plug ignites this mixture and results in 'knock'.

Detonation can also be result from use of too low an octane fuel for an engine.

The use of **Bardahl Octane Booster** increases gasoline octane and brings about a controlled, more uniform gasoline combustion, reducing knock from pre-ignition and detonation. **Bardahl Octane Booster's** action also inhibits after-run due to combustion chamber deposits.

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