



## PRODUCT INFORMATION SHEET

### WYNN'S SPITFIRE OCTANE BOOST

Product Number: 43804 350 ml

WYNN'S SPITFIRE OCTANE BOOST is an exclusively formulated double-duty non-leaded fuel additive for petrol engines, that increases the octane number of any grade of petrol used, and provides valve seat recession protection.

#### Advantages

Petrol engine pinging causes severe damage to an engine. Prolonged pinging and detonation can cause loss of power, poor fuel economy, engine overheating, and worst of all, severe engine damage such as hammered bearings or melted pistons. One cannot always tell that a vehicle is suffering pinging or detonation. Inaudible detonation can be impossible to detect by ear. Dynamometer tests show that inaudible detonations will cause loss of horsepower and loss of ring sealing.

These problems became obvious when super leaded petrol had its octane rating reduced as a result of intense lobbying by community groups to have the lead levels lowered. Also these problems are not limited to leaded petrol. Many later model cars running on either unleaded or premium unleaded fuel suffer both audible and inaudible detonation.

Late model cars with knock sensors can retard their spark advance and inject additional petrol to suppress detonation, but this reduces power and increases fuel consumption.

Wynn's Spitfire Octane Boost will overcome these engine knocking problems with whatever grade of petrol is used – unleaded (ULP), premium unleaded (PULP) or leaded (SUPER).

Lead was more than an octane enhancer, it was a lubricant too. And when that lubricating protection was part of every tankful of leaded petrol, most passenger vehicles were engineered with "softer" less wear-resistant valve-seats.

Today, many of those older "lead-age" cars are still on the road. But with the loss of lead lubrication, their exhaust valves can stick to the valve seating – pulling away small metal particles that oxidise and, in turn, wear away more and more of the seating every time the valve closes.

Wear of the valve seating – or valve-seat recession (VSR) can lead to increased exhaust emissions, poor idling, and a loss of power. And since precise valve-to-seat contact is needed for proper valve cooling, VSR can also result in valve burning and in rare cases, - catastrophic engine failure.

The potential for VSR increases with smaller engines running at higher speeds. So as more of the fast-paced world makes the change to unleaded petrols, Wynn's Spitfire Octane Boost is the smart solution to deliver both high-octane performance and valve-seat recession protection.

### Benefits

Wynn's Spitfire Octane Boost, along with VSR protection, gives petrol the octane boost for smooth, no-knock combustion.

Wynn's Spitfire Octane Boost has been specifically formulated to provide the following benefits:-

- Increases the Research Octane Number (RON) by 2 to 3 units.
- Reduces and prevents pinging of petrol engines.
- Improves engine performance and acceleration.
- Avoids mechanical damage caused by pinging (engine knocking).
- Prevent valve seat wear.
- Lowers petrol consumption.
- Helps reduce intake valve deposits.
- Can be used in leaded or unleaded petrol.
- Does not contain lead components or alcohol.
- Safe for catalytic converters and oxygen sensors.
- Safe for use in turbo-charged engines.
- Safe on vehicle components including plastics and elastomers.

Wynn's Spitfire Octane Boost provides valve-seat recession protection and high powered performance for hard-driving times.

### Applications

Wynn's Spitfire Octane Boost can be used in all grades of petrol – leaded and unleaded. Add to petrol tank at every tank filling, preferable before filling up.

One 350ml bottle treats 60 litres of petrol.

Wynn's Spitfire Octane Boost is combustible but non-flammable. Keep away from heat, sparks and flame. Keep out of reach of children.

Wynn's Spitfire Octane Boost will not harm catalytic convertors or oxygen sensors at the recommended treat rate.

#### Typical Characteristics

Appearance	Clear Thin Liquid
Density @ 15°C	0.871
Colour (Visual)	Amber
Colour (ASTM D 1500)	2.5
Flash Point (°C)	70 (ASTM D 93)
Boiling Point (°C)	121-207