Spark Plugs
Overview, features and benefits

www.boschautoparts.co.uk

- Original equipment supplier
- Optimum fuel efficiency and emissions performance
- Expertise since 1902 patent on a high voltage magneto and spark plug combination
- Improved engine life
- The right spark plug for almost every engine
- Bosch supplies and is the technical partner to the most popular and prestigious motorsport championship in the world

Bosch makes history in spark plug development:
Since 1902, Bosch has set the standard in spark plug technology with innovative, performance-proven products trusted by original equipment manufacturers worldwide.

From motorsport to series production:
Spark plug innovations specially developed for motorsport are incorporated into spark plug production for regular vehicles.

In fact they are often perfected furthermore before going into series production for workshops and dealerships.

Bosch Aftermarket Spark Plugs

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<th>Super 4</th>
<th>Precious Metal Lines</th>
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<td>Upgrade option for a standard spark plug (for older engines)</td>
<td>Improved ignition and longer life*</td>
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**Premium Motorsport Spark Plug**

Diameter
- Standard: 2 - 3mm
- Super 4: 2.4mm
- Iridium: 0.5 - 0.8mm
- Double Iridium: 0.5 - 0.8mm
- Platinum: 0.5 - 0.8mm
- Double Platinum: 0.5 - 0.8mm
- Motorsport: 0.6mm

Tip Material
- Standard: Chrome-nickel/Nickel-yttrium
- Super 4: Chrome-nickel
- Iridium: 0.5 - 0.8mm
- Double Iridium: 0.5 - 0.8mm
- Platinum: 0.5 - 0.8mm
- Double Platinum: 0.5 - 0.8mm
- Motorsport: Chrome-nickel

360° Continuous Weld
- Standard: –
- Super 4: –
- Iridium: –
- Double Iridium: –
- Platinum: –
- Double Platinum: –
- Motorsport: –

Engineered for high performance and long life.

*Compared to Bosch standard spark plug equivalent **Not available in the aftermarket

The Bosch spark plug range has the right spark plug for every vehicle – perfectly matched to the characteristics of the engine.
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- Bosch supplies and is the technical partner to the most popular and prestigious motorsport championship in the world
- OE supplier of gasoline injection systems to most of the main car manufacturers

- Broad market coverage
  - The Bosch spark plug range offers the exact fitting spark plug in original equipment quality
  - Global market coverage of 95% means virtually the right spark plug solution for every engine, gasoline or CNG/LPG

- Innovative alloys
  - Long service life (vehicle manufacturers’ recommended replacement intervals are always met or exceeded) and improved ignition energy transmission
  - Bosch utilizes precious metal alloys that use extremely erosion resistant materials, such as platinum, iridium, nickel, nickel yttrium and silver

- Copper core
  - Improved consumption, acceleration and corrosion protection
  - Highly wear resistant electrodes due to nickel and precious metal alloys and highly thermal conductive copper core

- Optimized electrode Geometry
  - Improved cold start ability even with low battery voltage
  - Less ignition voltage required due to apointed, profiled ground electrode and grinded centre electrode which means less fuel condensation (no wetting)

- Housing and threads
  - Protection of housing against corrosion and thread seizures especially in aluminium cylinder heads for quick and easy spark plug exchange
  - Nickel-plated spark plug housings and rolled threads as standard in all spark plugs

- Innovative laser welding technique
  - Quick fitting
  - Factory set electrode gap

360° Continuous wave laser welding technology Bosch patented process

More than a century of experience in spark plugs, many more patents along this journey, one of them: Bosch’s exclusive 360° continuous wave laser welding method for fusing precious metal electrode to base.

With 360° continuous laser welding technique Bosch’s spark plug centre electrode gets:
  - A homogenous, continuous welded zone
  - No crack formation
  - Strongest bond of the precious metal pin to the centre electrode
  - Industry-best welding technology, ensuring highest retention of the precious metal electrode and thereby preventing potential engine damage

In the pulse laser welding process, there is a risk of the noble metal pin (center electrode) getting detached due to cracks caused by the high combustion chamber pressure. This may lead to engine damage. These cracks do not form in the patented CW laser welding process.

Bosch Spark Plugs - As diverse as the requirements

Advantages are gained from using specific alloys to suit each particular engine. It is easy to find the right product in the Bosch spark plug range as each one bears the electrode alloy in their name: Bosch Platinum, Bosch Double-Platinum, Bosch Iridium, Bosch Double-Iridium or trusted by original equipment manufacturers worldwide.

Super 4: Premium Line

High end spark plugs for older engines. Four thin ground electrodes and surface air gap technology