Spark Plugs
Overview, features and benefits

www.boschautoparts.co.uk

- Preferred original equipment supplier
- Optimum fuel efficiency
- Optimum emissions performance
- Leaders in spark plug technology with unique 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
- OE supplier of gasoline injection systems to most of the main car manufacturers

Bosch makes history in spark plug development:
Since 1920, 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

<table>
<thead>
<tr>
<th>Standard</th>
<th>Super 4</th>
<th>Precious Metal Lines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>2 - 3mm</td>
<td>2.4mm</td>
</tr>
<tr>
<td>Tip material</td>
<td>Chrome-nickel/ Nickel-yttrium</td>
<td>Chrome-nickel</td>
</tr>
<tr>
<td>360° Continuous Weld</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Tip Material</td>
<td>Ground Electrode</td>
<td>Nickel-yttrium</td>
</tr>
</tbody>
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The Bosch spark plug has the right spark plug for every vehicle – perfectly matched to the characteristics of the engine.

Engineered for high performance and long life.
## Spark Plugs
### Overview, features and benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Boroad market coverage</strong></td>
<td>The Bosch spark plug range offers the exact fitting spark plug in original equipment quality.</td>
</tr>
<tr>
<td><strong>Innovative alloys</strong></td>
<td>Long service life (vehicle manufacturers’ recommended replacement intervals are always met or exceeded) and improved ignition energy transmission.</td>
</tr>
<tr>
<td><strong>Copper core</strong></td>
<td>Improved consumption, acceleration and corrosion protection.</td>
</tr>
<tr>
<td><strong>Optimized electrode Geometry</strong></td>
<td>Improved cold start ability even with low battery voltage.</td>
</tr>
<tr>
<td><strong>Housing and threads</strong></td>
<td>Protection of housing against corrosion and thread seizures especially in aluminium cylinder heads for quick and easy spark plug exchange.</td>
</tr>
<tr>
<td><strong>Innovative laser welding technique</strong></td>
<td>Quick fitting.</td>
</tr>
</tbody>
</table>

### 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 firing pin to base.

With 360° continuous wave 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 pin no 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.

- **Super 4: Premium Line**
  - High end spark plugs for older engines. Four thin ground electrodes and surface air gap technology.

### Brake Pad Summary:

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