The automotive innovators DENSO has long been a leading name in OEM (Original Equipment Manufacture) automotive technology. Today, as the largest automotive component manufacturer, we pour continuous R&D investment into helping the world’s top car-makers create increasingly responsive, efficient and reliable vehicles.

DENSO Aftermarket – which draws on this expertise – has complemented its Spark Plug provision with the addition of an exciting, all-makes, OEM quality Glow Plug programme that benefits from our cutting-edge Diesel technology. From superlative start-up performance to extended post-heating temperatures, DENSO Glow Plugs offer complete choice, competitively priced.

At the forefront of Diesel technology, DENSO’s superior R&D investment has helped to pioneer increasingly efficient, powerful and reliable Diesel engines with minimal emissions. Our achievements include:

- 1991  DENSO is the first OE manufacturer of Ceramic Glow Plugs; improving starting performance and reducing emissions
- 1995  DENSO pioneers the world’s first Diesel Common-Rail system – optimum injection pressure for maximum performance, quality and reliability
- 2002  DENSO introduces the world’s first 1800-bar Diesel Common Rail fuel system
- 2005  DENSO introduces the world’s first 1800-bar Diesel Common Rail fuel system with highly responsive Piezo Injectors, providing even better combustion performance
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**Performance | Rapid heat-up, rapid start**

All DENSO Glow Plugs heat up fast, for a rapid start even in sub-zero temperatures.

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<table>
<thead>
<tr>
<th>DENSO Glow Plug Types</th>
<th>Temperature (°Celsius)</th>
<th>Time (seconds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instant Heating</td>
<td>1400</td>
<td>0</td>
</tr>
<tr>
<td>Ceramic</td>
<td>1300</td>
<td>5</td>
</tr>
<tr>
<td>Extended Post-Heating</td>
<td>1200</td>
<td>10</td>
</tr>
<tr>
<td>Double Coil</td>
<td>1100</td>
<td>15</td>
</tr>
</tbody>
</table>

Seal
A rubber seal is in place to prevent air from seeping through and corroding the coil.

Insulation
Electrical insulation of the coil is provided by firmly packed magnesium oxide powder, which is also an efficient heat conductor.

Regulating coil
The main coil acts as a regulator within the Glow Plug to control and sustain temperature rise, and ensure a rapid warm-up.

Coil Connection
Laser welding connects the heating and regulating coils to maintain their position at all times and ensure consistent resistance characteristics.

Heating Coil
A shorter, tapered heating coil inside the end of the Glow Plug delivers a quick start (from as little as two seconds) even in cold conditions. It can then hold its post-heating temperature for up to six minutes from a cold start. This contributes to lower engine emissions.

Terminal & Shell
The outer casing and terminal are zinc coated to resist corrosion.

Insulator
The Glow Plug insulating disc has exceptional strength, insulation and thermal conductivity to ensure that a short circuit cannot occur.

Casing
An alloy casing surrounds and protects the Glow Plug to provide heat resistance.

Tip
The narrowed plug tip ensures improved heating efficiency and excellent performance.
DENSO Glow Plugs are amongst the best in the industry for technical excellence and performance.

**Characteristics**

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