



Glow Plugs



DENSO | 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.

Diesel Pioneers | Leading the world

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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Printed in Netherlands DEGP14-UK10

Driven by
Quality



Performance | Rapid heat-up, rapid start

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

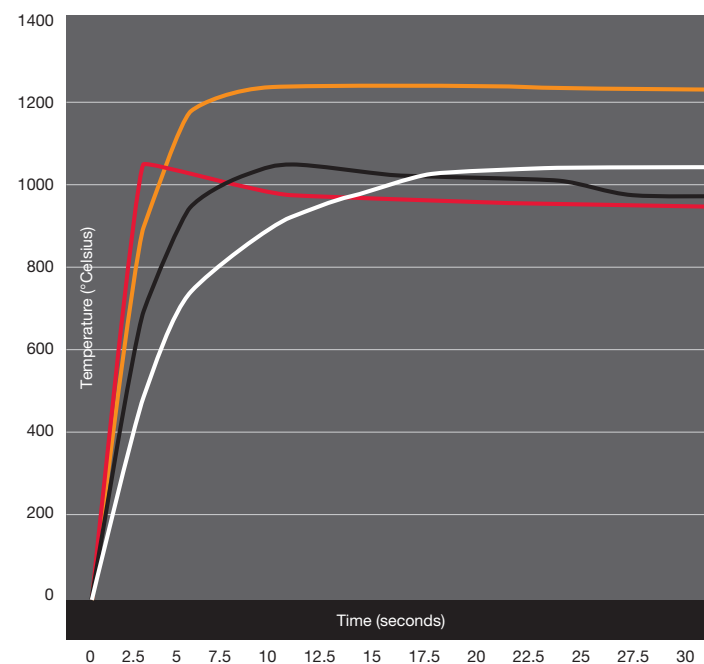
Characteristics | Better by design

DENSO Glow Plugs are amongst the best in the industry for technical excellence and performance

Why DENSO? | Advanced OE quality

Choose DENSO Glow Plugs for trusted OE quality and superior, all-round performance

COMPARISON OF DENSO GLOW PLUG TYPES



- Instant Heating
- Ceramic
- Extended Post-Heating
- Double Coil

Terminal & Shell

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

Insulator

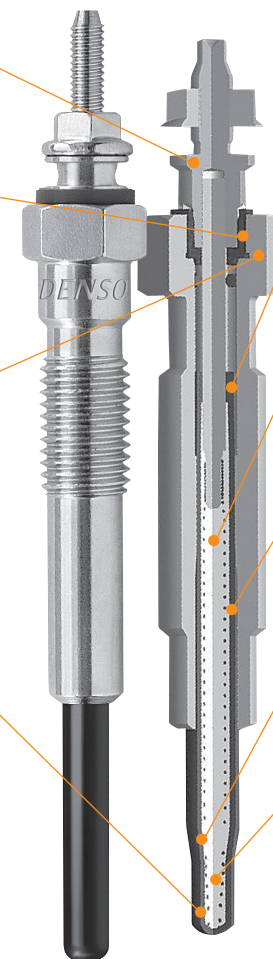
The Glow Plug insulating disc has exceptional strength, insulation and thermal conductivity to ensure that a short circuit cannot occur.

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.



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.

- > OE quality Glow Plugs that meet or exceed manufacturers' specifications
- > Faster heat-up times and a reliable cold-start
- > Extended post-heat temperatures for lower emissions
- > Excellent coverage ensures suitability for almost every diesel engine in Europe
- > More applications covered with fewer part references
- > Easy to use part numbering system
- > Meets ISO TS16949, ISO14001 and OHSAS 18001 standards

