



PRESSINFORMATION

NGK Spark Plug Europe: Sole supplier for the world's most powerful four-cylinder turbo engine

Ratingen, 24.04.2013 - NGK Spark Plug Europe is the exclusive spark plug supplier for the new Mercedes-Benz A45 AMG, which was unveiled at the Geneva Motor Show. The premium car manufacturer's compact model is the strongest four-cylinder production car in the world.

With 265 kW (360 hp), the 2.0-litre turbo-charged gasoline engine of the A 45 AMG not only marks a new record for compact cars. With a specific output of 133 kW/181 hp per litre, it even outperforms eight- and twelve-cylinder AMG models. The engine boosts the A 45 AMG from 0 to 100 km/h in just 4.6 seconds. Electronically limited, its maximum speed is 250 km/h.

The original SILZKFR8B7S spark plug for this engine was designed by NGK with true high-tech features. The long and slim M12 spark plug with Long Insulator Design comes with an insulator extended by some millimetres and a cup-shaped terminal, which replaces the common SAE connector. This design, which was introduced in 2011, has become standard for German car manufacturers, as it effectively prevents flashovers and electrical failures in highly supercharged engines, which use extreme ignition voltages. On top of this, the insulator is made of a ceramic with outstanding dielectric strength. Additionally, the insulator nose heats up rapidly to further improve the cold-start characteristics.

With regard to electrode design, the SILZKFR8B7S also includes state-of-the-art technology. The 0.8-mm thin, two-step centre electrode with a tip of highest alloyed iridium is extremely resistant against wear, even at highest ignition voltages and combustion temperatures. On the ground side, NGK used a Square Platinum Electrode (SPE): It comes with tapered edges and a laser-welded platinum block. The precious metal ensures highest erosion-resistance, while the specific shape of the ground electrode guarantees perfect mixture accessibility and optimal flame spread. Furthermore, the ground electrode is welded directionally to the thread cut to guarantee ideal positioning within the combustion chamber. Finally, the copper core within the ground electrode consists of three layers, which further improves its heat conduction properties.

About NGK:

NGK is the world's leading manufacturer of spark plugs and Lambda sensors. The Company runs production plants and sales organisations all over the world. With a total of 12,000 employees, the Company generates an annual turnover of around 2.2 billion euros. NGK is represented on all continents and has eight sales centres, eleven production plants and 14 sales branches.

Article and pictures (300 dpi, 10 x 15 cm) are available for download at www.ngk.de - press.

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