

Volkswagen Genuine Spark plugs – your benefits

- + Consistent performance
- + Stable sparking
- + Low wear
- + Enhance driving comfort
- + High durability

Insist on the Genuine article

Volkswagen Genuine Parts®

- conform with the quality of the components used to manufacture your vehicle,
- ensure that all vehicle components continue to work together in perfect harmony and
- offer you the best possible safety, reliability and performance.

Keep your Volkswagen a Volkswagen.
Further information at www.volkswagen-original-teile.de

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Where the sparks *really fly*



Volkswagen Genuine Parts®





Did you know?

- Spark plugs are required to ignite a compressed mixture of fuel and air in the combustion chamber at a **precisely defined moment**. An ignition that occurs too early or too late can negatively affect performance and fuel consumption, and even cause **engine damage**.
- Spark plugs need to produce an average of **3,500 sparks per minute** while withstanding **temperature changes** of 100° to 3,000°C and **pressure changes** of 0.9 to 30 bar. At a certain point, used spark plugs can no longer manage this.
- The temperature at the tip of the plug insulator must remain between 450° and 850°C. Temperatures below can result in **sooting**, while excessive temperatures can cause **pre-ignition problems**.
- If the spark plugs become sooted or worn out, the risk of **incomplete combustion, increased fuel consumption and misfiring** arises. Unburned fuel can damage the catalytic converter.
- Pre-ignition occurs when excessively hot spark plugs ignite the mixture of air and fuel in the combustion chambers. Due to such **uncontrolled firing**, the engine can rapidly sustain **major damage**.
- When a vehicle is predominantly driven over **short distances**, or when the engine is often operated at **maximum output**, spark plug replacement intervals are shorter than specified.

Volkswagen Genuine Spark plugs ...

- ... are specifically designed for each engine type and **work reliably**, permitting the engine to operate at **peak performance**.
- ... provide a **high degree of resistance** to corrosion and deposit formation.
- ... provide **stable sparking** due to finely designed electrodes and ensure complete combustion of the fuel-air mixture through rapid flame propagation.
- ... reduce the voltage required for ignition due to **low electrode wear**. This means **greater reliability** between the spark plug's specified replacement intervals.
- ... protect against localized overheating and resulting damage, thanks to their **heat-dissipating complex design**.
- ... provide very **smooth running performance** and driving comfort throughout the entire engine speed range, thus permitting precise engine responsiveness.
- ... **reduce fuel consumption** and therefore emissions due to exact positioning of sparks in the combustion chamber.
- ... are **extremely durable** and therefore economical. Depending on the spark plug type, their mileage is as high as 60,000 km.