



LASER SERIES

NGK Spark Plugs collaborates with OEMs to make its precious metal original equipment plugs. NGK LASER PLATINUM® and LASER IRIIDIUM® spark plugs are tested to the highest OE standards to ensure quality and durability. Laser series plugs are custom built for each manufacturer. Every aspect is custom for the needs of the engine platform.

LASER PLATINUM®

- Center electrode: **Platinum**
- Ground electrode: **Single Platinum** OR **Double Platinum**

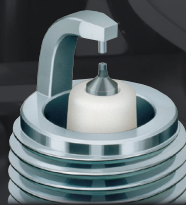
LASER IRIIDIUM®

- Center electrode: **Iridium**
- Ground electrode: **Single Iridium** OR **Double precious metal** (Iridium + Platinum)

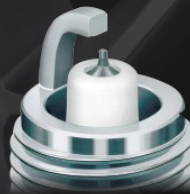
AVAILABLE DESIGNS



HYBD
Hybrid Ground
Electrode



DFE
Dual Fine
Electrode



SPE
Square Platinum
Electrode



PSPE®
Projected Square
Platinum Electrode

The NGK Difference

High-grade alumina silicate ceramic

Creates a stronger insulator to reduce dielectric punch-through (caused by spark exiting through side of ceramic)

Cold-rolled threads

Prevents cross-threading and damage to cylinder heads

98% pure copper core

Increased heat dissipation for reliable starts, prevents spark plug overheating (see *Illustration A, back*)

Trivalent metal plating

No anti-seize required

Fine wire center electrode

Higher ignitability, reduced quenching (see *Illustration B, back*)



ngksparkplugs.com
Tech Support: (877) 473-6767 ext. 2

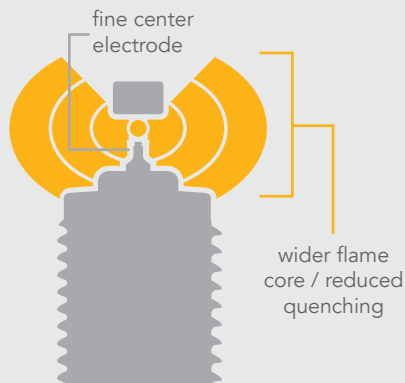
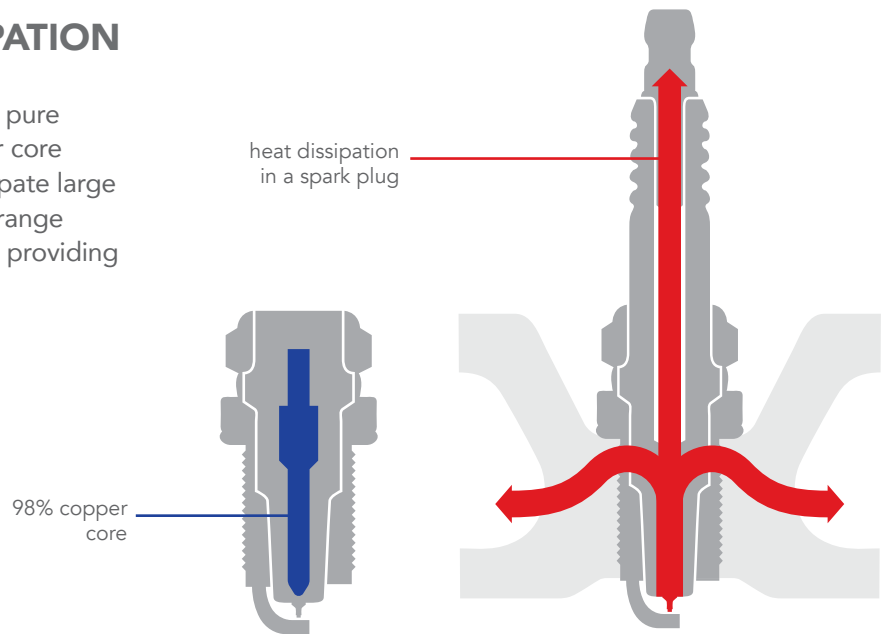
THE IGNITION SPECIALIST™



INCREASED HEAT DISSIPATION

Illustration A

The combination of NGK's high-grade pure alumina ceramic and 98% pure copper core enables the spark plug to quickly dissipate large amounts of heat. This ultra-wide heat range prevents spark plug overheating while providing reliable starts.



HIGHER IGNITABILITY

Illustration B

The quenching effect is where the cooler center and ground electrodes drain the energy of the flame core by way of heat transfer. If quenching is severe, the flame core can be extinguished, causing ignition to fail. NGK Laser series spark plugs are designed to reduce the quenching effect resulting in better ignition performance.

TESTING & MANUFACTURING

All NGK spark plugs must pass extensive testing procedures and quality checks to ensure fit and performance.

- **Mechanical vibration testing**
- **Thermal shock testing to -40°F**
- **Tightest resistor manufacturing process in the industry**
- **Manufactured in our ISO 11565 certified manufacturing facility**
- **Gap measured with laser precision throughout production process**
- **Center electrodes are accurately positioned with a 360° welding process**



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