

## Wagner ThermoQuiet® Ceramic<sup>NXT</sup> Brake Pads

Wagner ThermoQuiet® was developed to solve consumers' leading complaint about brake components – noise. ThermoQuiet® brake pads feature an exclusive Integrally Molded Insulator (IMI™) technology. The IMI™ eliminates the need for a conventional shim to dampen the brake noise. This breakthrough design dissipates the heat and vibration for a quieter performance. The laser-shaping feature for each system optimizes pad-to-rotor interface which gives you maximum stopping power. The advanced friction formulations are precisely matched to the unique characteristics and demands of each application, providing a longer pad life and less brake dust. The brake materials are validated using the most stringent testing in the industry at Federal-Mogul's global R&D facilities and through their close working relationships with leading automotive manufacturers.

The next generation of Wagner ceramic brake pads combines the IMI™ technology and application-specific Laser Shaping with Federal-Mogul's proprietary new Ceramic<sup>NXT</sup> formulations. The latest in braking innovation from Federal-Mogul is the Wagner ThermoQuiet® with Ceramic<sup>NXT</sup>. It offers superior stopping, quieter braking, longer pad life, and less brake dust.



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At the core of each ThermoQuiet® Ceramic<sup>NXT</sup> formulation is Dynamic Noise Absorption™ technology, which targets and absorbs vibration at the point of contact for even quieter braking. These formulations also feature thermal-sensitive properties that adapt to a wide range of temperatures for optimal braking performance in varying driving conditions.

Through its unparalleled friction R&D capabilities, Federal-Mogul continues to help professional technicians and do-it-yourselfers bring world-class braking to every application. Ask your parts provider about Wagner ThermoQuiet® Ceramic<sup>NXT</sup> brake pads.



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### Choosing the Right Brake Pads

There's a lot more to a quality brake job than simply installing new pads or shoes. Brake systems are more sophisticated than ever, and are precisely tuned to the requirements of each vehicle. The choice of brake pad plays a crucial role in restoring the safe, reliable, and quiet performance you're looking for.

As the global leader in OE and aftermarket friction, Federal-Mogul stands out for its ability to deliver technologically superior pads for any application. Their Wagner Brake brand revolutionized the friction category nearly a decade ago with the first generation of ThermoQuiet® brake pads. They followed that with Laser-Shaped Friction™ technology, which brought superior performance and quieter operation to a full range of foreign nameplate and domestic models.



# TechTalk

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# Features & Benefits

## Dynamic Noise Absorption™ (DNA) Technology

These next generation friction formulations are engineered to introduce a new level of performance in ceramic brake pads.

- The Dynamic Noise Absorption™ (DNA) technology targets and absorbs vibration at the point of contact.
- Thermal-sensitive friction adapts to a wide range of temperatures for optimal braking performance in varying conditions.

These advanced formulations provide quieter braking and superior stopping power.

## Laser-Shaped Friction™

This engineering innovation helps to eliminate the brake system's primary enemies: heat and vibration. Our patented Laser-Shaped Friction™ technology utilizes a laser-scanning process to identify and analyze performance-reducing vibration due to caliper, rotor and pad interaction. From this state-of-the-art scanning procedure, application-specific friction designs are developed to optimize pad-to-rotor contact. The result ensures the precise transfer of caliper force where it's needed most to deliver quieter braking performance.

## Exclusive Integrally Molded Insulator (IMI™)

The unique Integrally Molded Insulator (IMI™) is the key to the one-piece brake pad design. Wagner ThermoQuiet® brake pads integrate the friction material, backing plate, and insulator into a single high-strength component. This advanced one-piece design overcomes the problems associated with conventional shims, particularly shims attached with adhesives, which are subject to movement known as shim migration. This revolutionary design spreads out heat, sound and vibration over a much larger surface area for quieter operation.



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