

# THE BRAKING NEWS



## WHICH FRICTION MATERIAL IS BEST?

A very important factor to consider when installing friction on a vehicle is what type of material to install. It is important to consider a few key questions when deciding which friction material to go with.

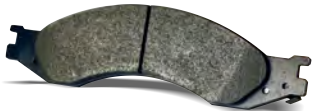
- What was the original equipment on the vehicle?
- What type of vehicle is this going on?
- What will the vehicle be used for?
- What is the driver's driving style?
- What features and benefits are most important?

Today, there are three basic materials that can be selected:

1. Semi-Metallic
2. Ceramic
3. Hybrid

Each of these different materials work great when used for the correct purpose. Let's take a dive into each and determine when each should be used.

### Semi-Metallic



**Advantages:** Semi-Metallic is the longest-tenured material in the marketplace. It is a great formula for drivers looking for strong pedal feel, great stopping power, and solid performance when used in situations beyond everyday road driving. All Raybestos® semi-metallic formulations are copper free.

**Best used for:** This formula is a must for larger trucks, vehicles used for towing, and specialty market applications. Areas such as Police, Racing, Commercial Vehicle, and European are all great examples of application types that require the performance of a semi-metallic formulation. For drivers who require stopping power at a higher heat and greater temperature range, semi-metallic is the best answer for them.

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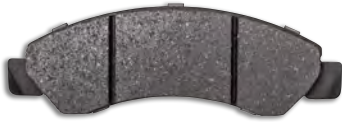
## Ceramic



**Advantages:** Ceramic is the most common material in the marketplace today and has been around for a number of years now. The biggest strength of this material type is that it gives drivers a clean, noise-free, and low-dust operation. The majority of Raybestos ceramic formulas are either low or no copper.

**Best used for:** Ceramic is best for everyday drivers that do not require any severe usage. Ceramic does not have the heat tolerance of the other two formula types. However, if extreme heat ranges or extra performance are not required, ceramic can be a great material. For drivers that care most about no noise and a clean look, ceramic is a great solution.

## Hybrid



**Advantages:** Hybrid formulas, led by Raybestos, are the latest material innovation in the marketplace. EHT™ Enhanced Hybrid Technology by Raybestos is a unique example of a new formula type that provides the best attributes of ceramic and semi-metallic in one pad. With this formula, you get the clean, noise-free, and low-dust benefits featured in the ceramic formula. However, you also receive great stopping power and pedal feel like a semi-metallic formula. All Raybestos hybrid formulas are either low or no cooper.

**Best used for:** This formula is best used for everyday drivers looking for premium braking performance. Everyday drivers can experience the improved pedal feel and performance while not sacrificing the noise and low dust. While great for everyday driving situations, hybrid formulas are not designed to handle the increased demands and high temperatures of a larger truck, a vehicle used for towing, and specialty market applications. These applications should be pointed to a semi-metallic formulation.

Quality manufacturers, like Raybestos, are always working on the creation of new formulations. While copper free pads are the most recent development, rest assured that other innovative formulas are also being researched and tested. You can rely on Raybestos to produce high-quality materials that are the best fit for your vehicle. Whether it be a ceramic, semi-metallic, or hybrid formulation that best fits your vehicle, Raybestos has you covered. Turn to Raybestos for the Best in Brakes.

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