THE BRAKING NEWS

LIGHTWEIGHT ROTOR DILEMMA

A common misperception in today's marketplace is that all rotors are the same. This could not be more false. The rotor weight, metallurgy, vane configuration and air gaps all play a major role in the rotor performance and service life. When a rotor does not match the OEM design in these areas, it can lead to many issues.

As Andrew Markel from Brake and Front End recently wrote:
"You may be saying, 'iron is iron.' This is not true when it comes to brake rotors. OEMs use different grades of iron to ensure that a vehicle platform has the right characteristics of wear, noise dampening and performance. Like brake pads, rotors can be vehicle specific."

High-quality manufacturers, such as Raybestos, are diligently working to follow proper manufacturing procedures and to ensure that products meet or exceed the OEM design.

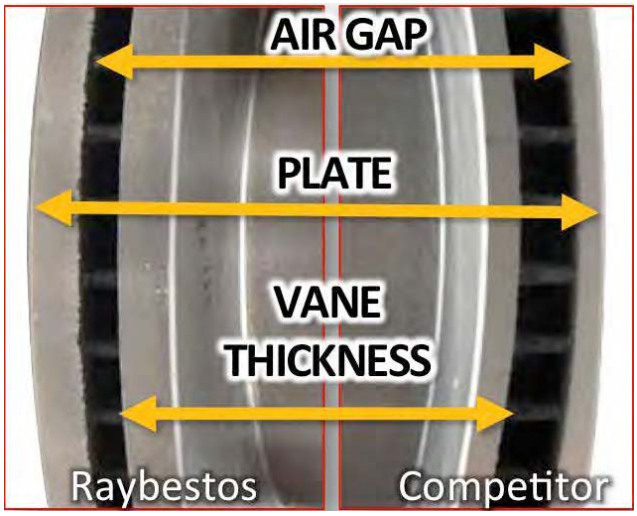
Quality vs Lightweight

Raybestos

Matches OE
- Properly dissipates and absorbs heat

Matches OE
- Maximizes rotor life
- Can be machined
- Resists premature pulsation

Matches OE
- Maximizes cooling
- Proper harmonics
- Reduce brake noise



Competitor

Increased Air Gap
- Leads to thickness variation

Thinner Plate
- Increases odds of heat checking and can lead to premature failure

Thinner Vanes
- Reduced size can lead to premature failure and noise

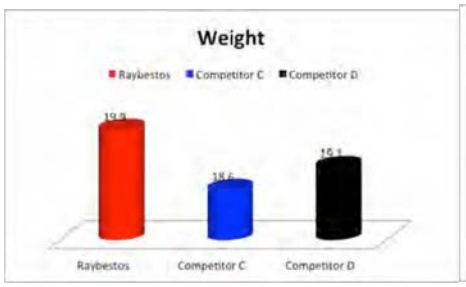
Raybestos® The best in brakes®

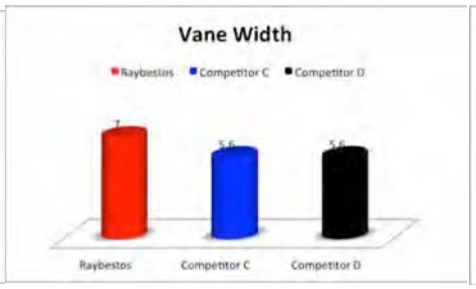
With this in mind, Raybestos recently examined three parts against two other leading brake manufacturers. In this analysis, three factors were examined:

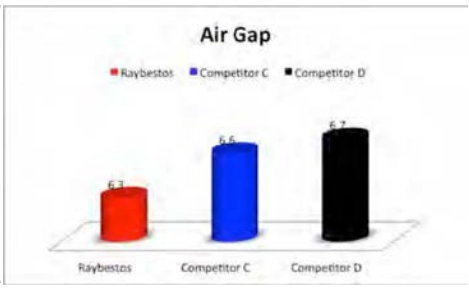
1) Weight: The heavier the weight, the better. Proper weight confirms that the rotor is made correctly and no short cuts were made in manufacturing.
2) Vane Width: Proper vane width is critical in matching the OEM rotor design. Thinner vane width can lead to premature failure and noise.
3) Air Gap Width: Some manufacturers will increase the air gap to save on raw materials and manufacturing costs. Following the more narrow OEM designed air gap will lead to proper heat dissipation, which positively influences the entire braking system.

The Results

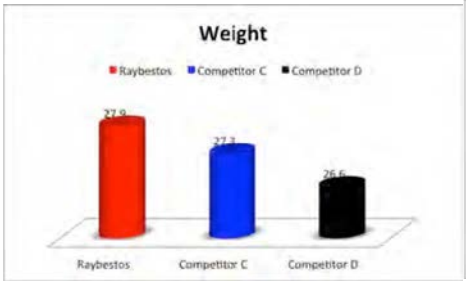
Part 1: SUV/Light Truck

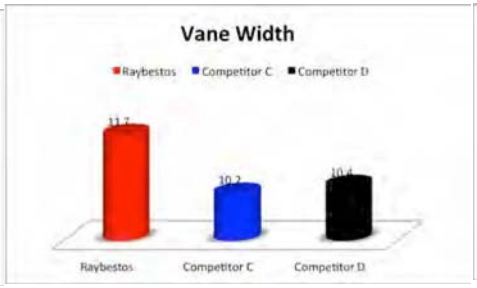


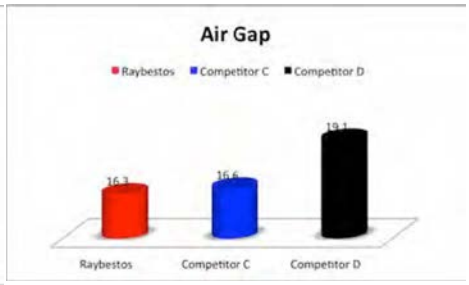




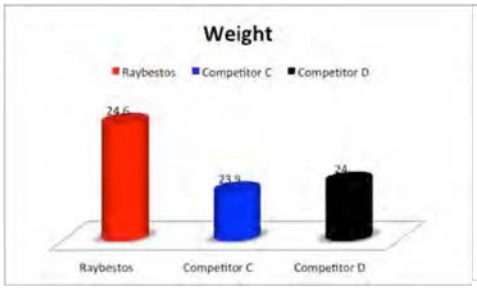
Part 2: Truck

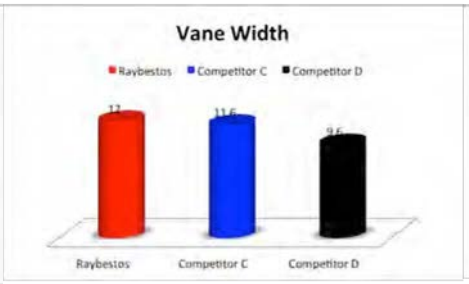


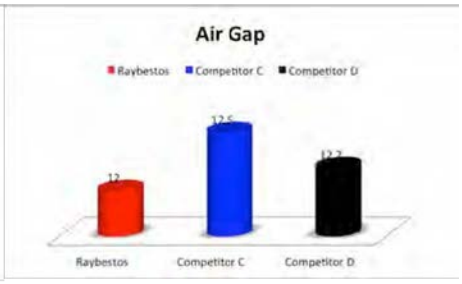




Part 3: Truck







If you have lightweight rotors, it can contribute to poor performance, a shorter life and premature failure. You can rely on Raybestos for a high-quality rotor that will last and give you top-of-the-line performance. Turn to Raybestos for the best in brakes.

Raybestos®
The best in brakes®

Learn more about brake parts we have.