

# Brake Pads

## Overview, features and benefits

www.boschautoparts.co.uk



**BOSCH**  
Invented for life



- ▶ Designed to exceed EU requirements of ECER90, rigorously tested under AMS criteria
- ▶ Manufactured to OE specifications
- ▶ Excellent thermal abilities for stable braking in different temperatures
- ▶ Pioneering technology, high reliability, long service life
- ▶ Built for high performance driving

Test	Bosch	ECE R90*
Shear strength	✓	✓
Pressure sensitivity	✓	✓
Speed sensitivity	✓	✓
Temperature sensitivity	✓	X
Temperature change resistance	✓	✓
Fading/loss of braking efficiency	✓	X
Thermal conductivity	✓	X
Brake vibration	✓	X
Noise characteristics	✓	X
Wear (pad)	✓	X
Wear (disc)	✓	X
Simulation of extreme braking situations	✓	X
Test duration	<b>6 months</b>	<b>6 hours</b>



### Safe under even extreme conditions:

At the Bosch winter test centre in Vaitoudden, Sweden, Bosch brake pads have to demonstrate their reliability on snow and ice.



\* Regulation ECE R90 specifies criteria that brake pads must meet before being offered for sale on the open market.

Bosch brake pads have a highly stable coefficient to ensure performance does not diminish even under extreme conditions.

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### Scorched Friction Material

Bosch speeds up the bedding in process by 'scorching' the pads to burn off gases and excess resins instead of allowing them to be burnt off on the vehicle during the bedding in process.

### Friction Material

Bosch utilise over 80 different friction material formulations to ensure the material is a suitable match for the performance requirements of each vehicle application.

### Chamfer

Reduce noise during 'bedding-in' process.

### Intermediate Layer or Underlayer

Layer of friction material with a higher resin content  
This increases the bond strength with the back plate and reduces heat transfer to the brake fluid, which can reduce braking performance.

### Adhesive

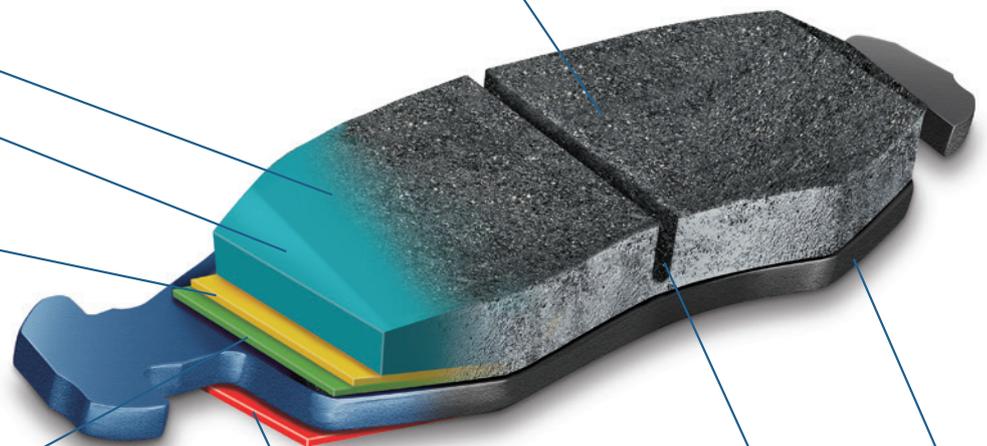
This bonds the friction material to the backing plate.

### Shim

Damping material - This absorbs vibration and minimises noise.

### Backing Plate

The backbone of every brake pad. Our backing plates are powder coated to prevent corrosion.



### Slot

Allow the pad to flex under pressure to prevent the friction material from cracking

### Why Bosch brake pads?

- ▶ Bosch brake pads meet the highest quality standards at our modern production facilities
- ▶ Bosch has a dedicated team to source and rigorously test the friction materials and formulations
- ▶ With the introduction of copper-free brake pads that use renewable materials, Bosch continues to provide customers with innovative products that care for the environment



### Quality in the millions:

Bosch brake pads are manufactured to especially high standards in modern production facilities around the world

### Brake Pad Summary:

- ▶ Designed to exceed EU requirements of ECER90, rigorously tested under AMS criteria
- ▶ Manufactured to original equipment specifications
- ▶ Pioneering technology, high reliability, long service life
- ▶ Excellent thermal abilities for stable braking in different temperatures
- ▶ Built for high performance driving