Invented for life

Innovations and awards: Brake pads from Bosch

Bosch inventions from servo brakes to the copper-free brake pad

Since brakes have existed in automobiles, there has been the need to make them safer and more powerful. Bosch has been committed to technical advances since the very beginning in order to offer motorists great braking safety and comfort. Numerous inventions from Bosch have established the technical standard found in brake systems today.

Brake innovations make history

As early as 1927, Bosch developed the braking assistance called servo brakes. In 1936, the patent application for the anti-lock braking system was filed. Starting in 1978, the ABS anti-lock braking system was installed in production vehicles and today still remains the most important invention for safe braking. Thanks to ever more powerful electronics in modern vehicles, the electronic stability program (ESP®) was launched in 1995. Today, it is specified by law in many countries and by the year 2014 100 million systems were manufactured.

Bosch awarded Best Brand 2022

In 2022 the readers of „auto, motor und sport“ magazine once again awarded Bosch **„Best Brand“** in the category brakes/brake pads**.**

Source: „auto motor und sport“, Edition 07/2022

Brake innovations from Bosch

1927	Servo brake
1928	Brake support
1936	Patent for anti-lock braking system
1978	Anti-lock braking system (ABS)
1980s	Invention of high-carbon casting for brake discs
1986	Traction control system (TCS)
1994	ABS for motorcycles
1995	Electronic stability program (ESP®)
1996	Mechanical brake assistant in the brake booster
2009	200 million Bosch ABS systems
2010	Predictive emergency braking system
2010	IPS brake caliper
2013	Regenerative brake system (ESP®hev)
2013	Electromechanical brake booster (iBooster)
2013	Motorcycle stability control (MSC)
2014	100 million ESP® systems from Bosch
2014	Copper-free brake pads in the USA
2016	Launch of brake fluid ENV6
2023	45 years ABS

Copper-free Bosch brake pads

National traffic laws differ greatly from country to country. Allowed maximum speeds and national environmental protection laws vary significantly. In 2010 the states of Washington and California passed basic laws targeted at reducing copper and other materials in brake pads. In response, Bosch engineers developed a copper-free brake pad mixture and filed an application for a patent in 2014. New developments are launched worldwide letting all regions benefit from the latest state of the art. In this way, many brake pads that are developed by Bosch specifically for regional market requirements, exceed the legal requirements significantly. Surveys and tests also show that in the mind of motorists Bosch brakes have long been considered the high-quality products.

Find out more at:
boschaftermarket.com