TURNING ENERGY
INTO INSPIRATION

BREMBO CCM – CARBON CERAMIC MATERIAL BRAKE DISCS AND PADS: AVAILABLE IN THE AFTERMARKET

Brembo CCM allows Aftermarket access to the best brake material available on the market.

Bergamo (Italy), 12 June 2025 – Brembo extends its brake range with the introduction of Carbon Ceramic Material (CCM) brake discs and pads. The products have been present on the market as original equipment items since the beginning of 2000, but the exclusive discs and related pads are now available in Aftermarket.

The main advantage of CCM is a 50% weight reduction compared to cast iron discs. This reduces the car's unsprung weight, which in turn contributes significantly to the vehicle's exceptional handling on the road.

The second important advantage of Carbon Ceramic Material produced by Brembo is that, under all conditions, it guarantees a high friction coefficient, which remains stable during braking at all speeds and in all weather conditions. This allows the driver to optimize the pressure applied to the pedal and results in increased driving confidence.

The thermal deltas to which the disc is subjected during sustained and prolonged deceleration do not affect the friction coefficient of the ceramic composite material, which remains virtually constant and is difficult to achieve with conventional cast iron elements.

Besides, at high temperatures, the reduced deformation of Brembo CCM units guarantees perfectly planar coupling with the brake pads, specially designed for this type of application and available soon. This important quality is not found with cast iron discs, which tend to deform when repeatedly subjected to high thermal stresses.

Furthermore, the surface of Brembo CCM discs never corrodes, even in contact with water or the salt solutions deposited on some road sections during the winter season. This feature means that the wear resistance of Brembo CCM guarantees an approximate disc life of 150,000 km for road use and 2,000 km for extreme track use (e.g. Ferrari Challenge).

Compared to a cast iron disc, a Brembo CCM disc heats up rapidly during braking, but it cools equally rapidly afterwards. This characteristic allows repeated cycles at high braking power without significantly affecting the friction.

Brembo launched the CCM project in 1998 and after 4 years of research and testing the CCM discs were used for the first road application on the Ferrari Enzo. Brembo's experience in developing CCR carbon discs for Formula One has been used to develop specific production technology for Carbon Ceramic Material brake discs.

About Brembo

Brembo leads the world in the design and production of high-performance braking systems and components for top-flight manufacturers of cars, motorbikes and commercial vehicles. Founded in 1961 in Italy, Brembo has a long-standing reputation for providing innovative solutions for original equipment and aftermarket. Brembo also competes in the most challenging motorsport championships in the world and has won over 700 titles.
Guided by its strategic vision – "Turning Energy into Inspiration" – Brembo's ambition is to help shape the future of mobility through cutting-edge, digital and sustainable solutions.
With over 16,000 people across 18 countries, 39 production and business sites, 10 R&D centers, 2 Inspiration Labs and with a turnover of € 3,840.6 million in 2024, Brembo is the trusted solution provider for everyone who demands the best driving experience.

www.brembogroup.com

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