



# Technical Information

## 'High-carbon' brake discs

### High-carbon brake discs

The characteristics of a brake disc can be altered during production through the respective chemical composition of the cast material.

If the percentage share of carbon in the cast material is increased, this known as 'high-carbon'.

The elements of the material, as well as its hardness and tensile strength, are defined in the standard EN-GJL-150 as GG15. High-carbon brake discs are identified by the letter combination HC (High Carbon).



### HC brake disc characteristics

The following characteristics are improved:

- Increased strength/stability
- Greater temperature resistance
  - Consistent brake performance and low fading under extreme conditions or with sporty driving style
- Reduced deformation through improved thermal conductivity
  - Brake judder and runout are reduced
- Noise reduction through improved damping characteristics

### Product information

HELLA PAGID offers high-carbon brake discs in the black CARBONIC variant.

The current portfolio of CARBONIC brake discs is designed to cater to the needs of today's European premium vehicles and sports cars. With the aim of reflecting current trends on the original equipment market, the HELLA PAGID range is continually being expanded.



## Assembly instructions



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Coated brake discs are painted with a weather and temperature-resistant top coat in different processes. As this is applied to the friction ring of the brake disc, it is an unavoidable consequence that the respective coating wears off on the contact faces of the brake pads when braking. To ensure that the brake system functions fault-free, the friction surfaces of brake discs and brake pads must first be run in following assembly.

Please follow the respective assembly and running-in instructions of the vehicle and brake manufacturer.

Further technical content relating to brake discs

- Running-in instructions for brake discs
- Coated brake discs
- Brake discs with wheel bearing and impulse ring

can be found in the HELLA TECH WORLD

<http://www.hella.com/techworld>