

# Carbonis



## Biochar

[www.carbonis.de](http://www.carbonis.de)

**Carbonis GmbH, founded in 2016 by Reinhard Vossmann, is the specialist in the production and trading of biochar.**

**The Vossmann family from Garrel has been successfully employed in agriculture and animal husbandry for many years. Thus, the Vossmann group has longstanding experience in breeding and fattening poultry and it knows the specific features and needs. Constantly endeavoring to further develop animal health and animal welfare.**

**We at Carbonis produce with a carbonization plant made by the Pyreg company with a GMP+ certificate and are thus a certified biochar manufacturer for animal feed. Moreover, we deal in EBC (European Biochar Certificate) certified biochar from members of Fachverband Pflanzenkohle e.V..**

## **Biochar**

Biochar has been applied in the ground/ soil areas for some time, for example in the production of black soil (Terra Preta). The application of biochar in the animal health area is “relatively” new, despite biochar being considered as one of the oldest remedies for humans and animals. It is manufactured through the pyrolytic carbonization of herbal raw materials and it is gaining increasing importance in modern agriculture.

## **Production**

We only apply selected resources in producing our GMP+ certified biochar. Thus, only high-quality wood chips are utilized.

Thanks to precise controlling and adjusting of several process parameters, our modern carbonisation plants for the first time allow for the reliable production of premium biochar without harmful by-products, which includes the production of feeding char.

We only apply pure hardwood and softwood from regional forests in producing our feeding char. Due to the GMP+ standard, traceability of origin is guaranteed.

## Areas of application

Biochar is highly versatile, whether it is applied as a soil improver in agriculture, gardening and landscaping, or in animal husbandry and biogas production.

## At a glance

- **Feeding char improves the intake of energy and raw feed**
  - ▶ Boosts weight gain
- **Strengthens digestion**
  - ▶ Prevents various diseases
- **Soil char improves soil fertility**
  - ▶ Promotes plant health and increases earnings in the long term
- **Stores nutrients and water**
  - ▶ Lower fertilizer and irrigation requirement
- **Increases biological activity**
  - ▶ Offers a habitat for microorganisms
- **Contribution to climate protection**
  - ▶ Carbon contained in the char solidly remains in the soil for hundreds of years

For further information, do not hesitate to contact us. We are looking forward to hearing from you.

Your Carbonis-Team



## Certifications

### The main contents of the GMP+ program



Animal feed is an important factor for the security of food products of animal origin. For this reason, a standard (GMP+) for the production of animal feed has been developed. The basics of good manufacturing practice have been combined with existing quality control standards within the GMP+ criteria. Not only does the GMP+ certificate lay down requirements concerning animal feed production systems, but also concerning storage, transport, personnel, procedure, documentation and the like. Together with the GMP+ partners, GMP+ International lays down clear requirements in a transparent way, so that animal feed safety is ensured.

- 🕒 Food security has top priority.
- 🕒 The Animal feed industry, including its suppliers, is responsible for the safety of its products.
- 🕒 Verifiable and transparent quality control is considered as a permit for production.
- 🕒 Proactive approach which connects the animal feed chain with the food chain.
- 🕒 Constant quality control of applied resources.
- 🕒 Gapless traceability of goods flows from the field to the plate.

Source: <https://www.tuev-sued.de/management-systeme/lebensmittelsicherheit/gmp>

### The criteria of the EBC European Biochar Certificate

The goal of the EBC certification is guaranteeing a scientifically valid, legally secured, economically responsible and practically feasible control of biochar production and quality.



- 🕒 Highest standards
- 🕒 Absence of pollutants
- 🕒 Sustainable conditions of production
- 🕒 Guarantee of quality

Source: European Biochar Certificate (EBC)