

Biochar HT

by Comim

HIGH QUALITY SOIL AMENDEMENTS
MADE OUT OF WOOD FROM OUR LAND



Good for plants

- Increases the cation exchange capacity
- Increases the availability of water



Good for the land

- Increases the porosity and the ability to retain nutrients
- Increases the pH
- Increases the microbial biomass



Good for the environment

- Traps the CO₂ built up in plant organs lessening the anthropogenic emissions into the atmosphere
- Reduces the need for irrigation

The production and marketing of Biochar HT ensures quality control from the biomass to the packaging

COMIM SRL

Our Biochar HT

Biochar HT is produced from the gasification of natural, virgin wood using our electricity and heat cogeneration plant. It passes through several high temperature stages, up to 1000°C, which allow the transformation of the organic matrix of wood into almost pure carbon.

Unlike materials obtained from traditional pyrolysis, hence at low temperatures, our HT Biochar is characterized by a very high degree of mineralization (low carbon-to-hydrogen ratio), thus guaranteeing greater stability in the soil with long-lasting effects for many years. The high temperature eliminates any type of hydrocarbon, resulting in an exceptionally pure material.

The size of the grain is highly varied, from less than 1 mm to a few millimeters. This characteristic, the result of the natural gasification process, is optimal for use in agriculture: the finer particles are dispersed uniformly in the soil, coming into full contact with the roots of the plants, while the coarser ones give greater structure to the soil, reducing washout and facilitating the development of the root system.

Technical data

Grain size fraction < 5 mm: 91 % s.s.
Grain size fraction < 2 mm: 70 % s.s.
Grain size fraction < 0.5 mm: 29% s.s.

Nitrogen [N] total: 0.4 %
Potassium [K] total: 0.7 %
Phosphorus [P] total: 0.1 %
Calcium [Ca] total: 2.5 %
Magnesium [Mg] total: 0.4 %
Sodium [Na] total: 0.05 %
Carbon [C] from carbonate: 0.7 %
Phytotoxicity and growth test*: suitable
Maximum water retention: 72.4% m/m
Moisture content: 44.2% m/m
*test conducted: UNI EN 16086-1
with summer barley
Product usage doses: 10 and 25% v/v
Obstruction of germination: absent

ADDITIONAL
INFORMATION
Carbon [C] total of biological
origin: 74.7 % dry
Ash: 23.1 % dry
pH (H₂O): 10.2
Specific electrical conductivity:
155 mS/m
Molar H/C
(carbon stability index): 0.2



Our biochar Biochar HT is registered by the Italian Ministry of Agriculture.
as soil conditioner.

Biochar HT is available in 2000 liter bags.

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