






## Biochar for Lawn and Turf

Biochar is a carbon-rich material made from the pyrolysis of biomass in an oxygen-limited environment. Renowned for its soil enhancement properties, biochar is gaining popularity in various applications. In this factsheet, we specifically focus on the use of biochar for lawn and turf management. The benefits and applications of biochar in this context, along with practical guidelines, will be thoroughly elaborated, providing valuable insights for those seeking sustainable lawn care and landscaping solutions.

Parameter	Unit	Green-waste Derived Biochar
pH	-	8.00±0.04
CEC	cmol/kg	29±0.13
BET Surface Area	m <sup>2</sup> /g	5±0.07
Pore volume	cc/g	0.003

### Properties and Benefits for Lawns and Turf

-  **Supports Microbial Life:** Biochar creates a conducive environment for soil microbes, enhancing nutrient cycling and uptake.
-  **Soil Structure Improvement:** Biochar helps in creating a more porous and well-aerated soil structure. This is crucial for turf and lawn health as it facilitates better root growth and water infiltration.
-  **Water Retention:** It significantly improves the soil's ability to retain water. This reduces the need for frequent watering and helps in maintaining moisture levels, particularly beneficial during dry periods.
-  **Nutrient Retention:** Biochar has a high cation exchange capacity, meaning it can retain nutrients like nitrogen, phosphorus, and potassium, and release them slowly over time. This sustained release helps in maintaining nutrient-rich soil for lawns and turfs.
-  **Improved Germination and Growth:** For seeded lawns, biochar can enhance seed germination rates and support healthier, more vigorous grass growth.

### Glossary

**Pyrolysis:** A thermal decomposition process where organic material is heated to high temperatures in the absence of oxygen, resulting in the production of biochar

#### Cation Exchange

**Capacity (CEC):** A measure of how well soil can retain and exchange positively charged ions (cations), important for nutrient efficiency.

#### Germination Rates:

The speed and success rate at which seeds sprout and begin to grow, crucial for establishing healthy lawns..

**Microbial Life:** Refers to the microorganisms present in the soil, playing a vital role in nutrient cycling and soil health.

## Our Products

Onnu offers a diverse range of biochar products tailored for lawn and turf care. Our specialised formulations cater to various needs, from home gardens to professional landscapes, enhancing soil health and grass vitality sustainably. **These include:**

**Soil Improver  
for Lawns and Turf**  
95% Biochar with Seaweed extract, wormcast and Mycorrhizal Fungi for micronutrients and enhanced soil structure

**Fertiliser Mix  
for Lawns and Turf**  
Biochar and NPK (18-03-08)  
Fertiliser Blend for additional nutrients and increased water retention

**Pure Biochar**  
100% Pure Biochar, ideal for making your own mixes



## Application Rates

Application rates for our biochar soil amendments vary based on factors like the environment, soil conditions, and plant type. For precise application guidelines tailored to your specific needs, please visit our website at [www.onnubiochar.com](http://www.onnubiochar.com) and refer to the detailed information on each product.

## Frequency of Application

Biochar is stable and persists in the soil for several years. Its benefits accrue over time, so frequent reapplication is not necessary. In general, apply every 2 years for optimum results, followed by a soil assessment for more tailored application rates.

## Further reads:



[Biochar, A Home Gardeners Primer](#)



[Royal Horticultural Society](#)

**Find more at:**

[www.onnubiochar.com](http://www.onnubiochar.com)