



GREEN MAN CHAR

ABN: 68 610 021 504

BIOCHAR

PRODUCT SPECIFICATION and USE

Green Man Biochar is a fine grained, plant derived Australian soil conditioner. When mixed with soil, it increases water and nutrient holding capacity ensuring that your plants and crops prosper and stay healthy. This product will permanently add carbon to your soil.

Product Use:

Green Man Biochar is perfect for general gardening and agricultural needs. It is a fine grained char product that conditions the soil and enhances the soil's chemical and physical properties improving plant health and growth. The product can be used to:

- ✓ Improve soil fertility and soil health, reducing fertilizer requirements
- ✓ Increase water and nutrient holding capacity of the soil
- ✓ Provide a home for beneficial soil microbes including mycorrhizal fungi
- ✓ Top dress lawns
- ✓ Put carbon back into the soil – locking up atmospheric carbon and sequestering it in the soil.
- ✓ Increase soil cation exchange capacity and soil pH
- ✓ Add to compost and mulches to stimulate microbial activity
- ✓ Blend with fertilisers to improve availability and reduce loss.

Application rates will vary depending on soil types, vegetation and environment. For a general application guide:

- 1-5 litres / m² for gardens.
- For mixing with potting medium or composts, mix biochar at approximately 1-10% of volume.
- For large scale applications in horticulture rates of minimum 5t/ha equivalent strategically targeted to root growth zones. Repeat applications on a multi-year period will slowly build the biochar content of the soil.
- For large scale agricultural applications, a minimum rate of 35 kg/ha is recommended on a multi-year application regime. Alternatively, one off or multi-larger scale applications in the tonnes/ha are recommended.

For organic and sustainable soil improvement

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Applications can be repeated annually, mixed into the root zone with your favourite fertiliser to fuel plant growth. For existing crops, it can also be applied as a top dressing.

MIX WITH SOIL AT 1-10% FOR BEST RESULTS

Specifications:

Green Man Biochar Charcoal is a plant-derived Australian soil conditioner, high in quality and high in carbon content.

Parameter	Specifications
Product Name:	Green Man Biochar
Feedstock:	100% Australian sustainable woody biomass
Production Process:	Slow pyrolysis – CharMaker MPP
Size:	Predominantly less than <0.3 cm in dimension
Composition:	Natural charcoal
Chemicals and binding agents:	There are no added chemicals or binding agents
Average Fixed Carbon (%)	~80 – 90 %
Inherent Moisture (%)	~20-30 %
Average Ash (%)	~2.4 %
Total Carbon (%)	~80-91
Nitrogen (%)	~0.4
Sulfur (%)	~0.06
Average Surface Area (m ² /g)	~200 – 500

Safety Information:

Biochar is used for many purposes including pollution control, medicinal and agricultural uses. It is generally a safe product but when dry may contain fine particulate matter leading to respiratory irritations. Precautions against inhalation and dust may be necessary.

Biochar can ignite when exposed to heat or an ignition source. When burnt, Biochar can release carbon monoxide and should never be burnt in an enclosed environment.

A Material Safety Datasheet is available on request. The product may contain traces of materials other than charcoal.



Our Biochar – up close!

Scanning electron microscope 200 μm - 5 μm – note the tiny holes. This provides high surface area, nutrient and water holding capacity and is a home for beneficial soil microbes.

