



**GREEN MAN CHAR**

ABN: 68 610 021 504

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# HORTICULTURAL CHARCOAL

## PRODUCT SPECIFICATION and USE

***Green Man Horticultural Charcoal is a plant derived potting medium that absorbs water, stores carbon and nutrients, and enhances growth.***

### Product Use:

Green Man Horticultural Charcoal has many valuable uses in the garden. The product can be used to:

- ✓ Enhance drainage of potted plants
- ✓ Provide a growing medium for orchids and epiphytes
- ✓ Increase soil water holding capacity, absorbing water and releasing back to plants when they require it
- ✓ Increase soil nutrient retention
- ✓ Encourage root growth, beneficial soil biota and symbiotic fungi
- ✓ Provide a medium for hydroponics or an alternative to water crystals
- ✓ Enhance terrariums through moisture and odour control
- ✓ Store carbon in the soil

**ADD TO POTTING MIX MATERIALS AT 5-20% FOR BEST RESULTS**

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*For organic and sustainable soil improvement*

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## Specifications:

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

Parameter	Specification
Product Name:	Green Man Biochar
Feedstock:	100% Australian sustainable woody biomass
Production Process:	Slow pyrolysis – CharMaker MPP
Size:	<2 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 <sup>2</sup> /g)	~200 – 500

## Safety Information:

Horticultural charcoal has a long history of use by gardeners and farmers. 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.

Charcoal can ignite when exposed to heat or an ignition source. When burnt, charcoal 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 Horticultural Charcoal – up close!

Scanning electron microscope 200  $\mu\text{m}$  - 5  $\mu\text{m}$  – note the tiny holes. This provides high surface area, nutrient and water holding capacity and is a home for beneficial soil microbes.

