

BIOCHAR

This leaflet **does not** refer to bio-oil and syn-gas, as they are also parts of the biochar production technique.

What is biochar?

Biochar, dubbed 'super charcoal', is a soil-friendly conditioner or enhancer. It consists of carbon-rich materials by heating biomass at an extreme temperature using a pyrolysis^o method similar to activated carbon. All non-carbon materials are burnt and gasified, leaving pure carbon behind. Biochar revives degrading soil that contains too much chemical fertiliser.

The benefits¹

Biochar enriches the soil with carbon, resulting in the carbon sink, which helps to adsorb carbon dioxide from the air above it. It has a porous surface that can hold carbon, retain water, store nutrients, rectify toxins, ventilate air (in soil) and support microbial activities. These porous surfaces are also home to microbes that help to convert soil elements into nitrates that will, in turn, be useful to plants and trees. Whether degraded soil is acidic or alkaline, biochar will always maintain the soil pH value at its neutral level.

Economical viability

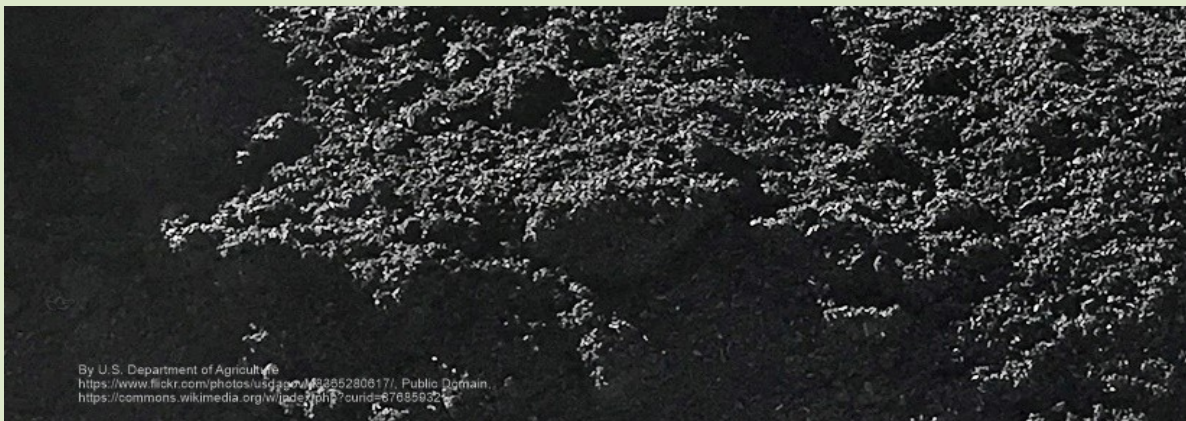
Biochar can reduce excess uses of fertiliser. It also prevents soil nutrient losses. Furthermore, biochar does not need to apply to each crop. Its beneficial effects can still last for several growing seasons.



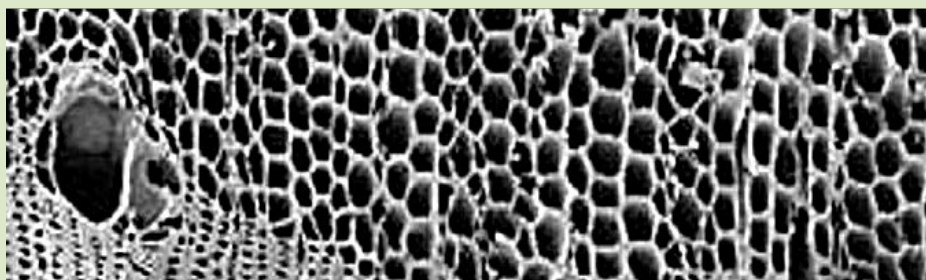
Growing grass with added biochar

Agricultural wastes for making biochar	
Bamboos	Rice hulls
Corncoobs	Rice straws
Leaves	Cattle dung

Processed biochar



Soil with biochar.



Pores of biochar (magnified)

Other Applications



Cattle Feeding



Construction Materials



Potting Soil

We sell

Biochar

Packaging (kg.)

Granular form

5 kg.



Transport/Shipment

Modes of Transport

Containers²

Ship

20/40-foot Standard

Railway/Truck³

20/40-foot Standard

⁰ A process of heating organic materials with no oxygen at an extreme temperature.

¹ For a full benefit, use biochar together with fertilisers or compost.

² Subject to customs regulations on maximum laden weight/payload.

³ An option for customers in Cambodia, China (Yunnan only), Laos, Malaysia Peninsula, Myanmar and Singapore. Subject to service availability.

※ This leaflet may be corrected and updated without prior notice.

Updated 02 Jan 2023

MADE
in
THAILAND