Mayan Gold[®] is a black, coarse wood charcoal product, with particles less than 5mm in diameter

Suggested Uses:

Potting Mix: 3% - 6% by volume Gardens: 1 liter per square meter Compost Additive: 1 cup per week

How to Apply:

Add Mayan Gold to your soil as you would a fertilizer or potting soil additive, and then work it in as deeply as possible. You can also mix it in with your compost before adding the compost to your garden.

The best time to add biochar to the garden is in the spring before you till the soil or work up the flowerbeds.

Over the past decade, there has been intense research about the potential benefits of biochar for carbon sequestration, since adding solid carbon to the soil is an effective way to help reduce greenhouse gas (GHG) emissions.

3 Convenient Sizes

🗑 7.6 litre pail 🛛 40 litre bag

1 m³ supersack

MAYAN GOLD is being independently tested at these respected institutions: UNIVERSITY OF SASKATCHEWAN UNIVERSITY OF **I** INIVERSITY WATERLOO **УGUELPH** Agriculture and Agri-Food Canada For more information about biochar, please visit: The International Biochar Initiative: http://www.biochar-international.org The British Biochar Foundation: http://www.britishbiocharfoundation.org The UK Biochar Research Centre: https://www.biochar.ac.uk The Ithaka Journal: http://www.ithaka-journal.net Approved for organic production / Approuvé pour la production biologique

> For more information about our products, please contact:

Titan Clean Energy Projects 306-734-2222

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titan-projects.com

Clean, green gardening the Mayan way



Your natural way to richer soil and better barvests

Retains water and nutrients closer to the plant roots

> Increases beneficial soil bacteria

> > Improves yields



All-natural

Chemical and fertilizer free

Improves soils for the lifetime of your garden

Help improve your soil - Mayan Gold is especially beneficial for clay-heavy or sandier soils

What is Biochar?

Charcoal, or biochar, is a completely natural product that has been used as a medicine by adsorbing toxins for thousands of years.

Egyptians used it as an antidote to poisoning, and the ancient Hindus filtered their water with it. To this day, charcoal is the most common way of filtering water around the world.

Studies have shown that it can lead to significantly increased crop production in poor soils. Added to the garden, it gives beneficial soil bacteria a good place to live.

Biochar can also be used like baking soda to absorb humidity and unpleasant odors.

There is no end to what this natural product can doand it is all because of the physical and chemical makeup of carbon itself.

How it's Made

Mayan Gold is made from ONLY high quality organic wood chips heated at high temperature in a vacuum. This drives off all the water and other elements of the wood, leaving only 100% pure biochar behind.



"Amending soil with biochar (pyrolized biomass) is suggested as a globally applicable approach to address climate change and soil degradation by carbon sequestration, reducing soil-borne greenhouse-gas emissions and increasing soil nutrient retention." - Hangmann N. et all (2017)¹

¹Organic coating on biochar explains its nutrient retention and stimulation of soil fertility Nature Communications 8:1089 - http://www.nature.com/articles/s41467-017-01123-0.pdf

Is it Good for the Environment?

Absolutely. Applying biochar to your soil not only is a natural amendment but an effective carbon sink.

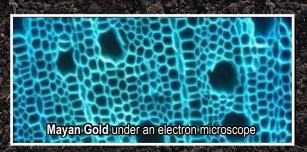
Biochar is essentially carbon taken from plants that recently grew using carbon dioxide from the atmosphere. The process of plants taking in carbon dioxide is called photosynthesis. By creating biochar, we are essentially removing this carbon from the atmosphere and sequestering it in soil.

We are all responsible for the release of carbon dioxide from the combustion of fossil fuels like coal, natural gas, and crude oil². For every kilogram of biochar we manufacture, approximately 3 kg of carbon dioxide is removed from the atmosphere. ²(Source: US Environmental Protection Agency).

The carbon in **Mayan Gold** stays in the soil permanently, benefitting generations to come.

How it Works:

The secret to why biochar is so effective is the tiny nano-pores that make up the carbonized wood. Biochar has a structure like a honeycomb, with thousands of little holes, allowing for incredible surface area between 250 m² and 1000 m² per gram. By comparison, compost usually has only 1 m² of surface area per gram. These holes give beneficial soils bacteria a place to live, like an enormous apartment block. Once bacteria move in they can retain a permanent colony in the biochar, improving soil effectiveness over time.



Compost and fertilizers give the garden its nutrients, but biochar gives the soil its structure. As the soil bacteria count increases, studies show a darker, richer soil develops. Biochar is not a fertilizer, and benefits do not happen overnight, but it a permanent addition to your soil's health and vitality.

