

EIP-AGRI practice abstract

Short title:

Terra-Preta biochar product recovered from wood chips and processed by “3R” high temperature pyrolysis process.

Summary:

The term “Terra-Preta biochar” is a specific quality product with unique characters, which is processed by the “3R” Recycle-Recover-Reuse high temperature pyrolysis technology and formulations. Terra Preta biochar product is plant biomass by-product based stabile carboniferous substance that is processed under true value reductive “3R” thermal conditions, that is used for soil improver and and eco-safe carbon negative applications, usually between 5 t/ha and 20 t/ha. Terra-Preta biochar has high water retention capacity to improve drought tolerance. This is very important as many plant crops are very sensitive to abiotic stress as too hot and dry weather.

The product is a **fully safe and innovative soil improver with primarily application in the horticultural organic/low input farming cultivations** with combined beneficial and multiple effects. The product could be formulated to BIO-NPK-C in any compounds as of user/market demands for both organic and low input farming. Terra-Preta biochar is rich in micro and meso-pores, which increase the water retention capacity, allow the development of microorganisms and retain nutrients, releasing them gradually over time. The combination of Terra-Preta biochar with compost, biophosphate, manure or another organic fertilizer is most encouraging for agronomic performance. Compost integrated application positively influences soil structure, including reduction of bulk density; increase of aggregate stability; improvement of pore volume; improved water retention; improved air balance; reduction of soil erosion and run-off; stimulating microbial growth and increase of Cation Exchange Capacity.

For more information: https://nutriman.net/farmer-platform/product/id_1571