

BETTER SOILS FROM A BETTER BIOCHAR

ArborChar®, A Better Way to Grow

ArborChar® is uniquely built to be a soil amendment and fertilizer, blending nutrients to target specific plant needs with biochar to help improve leaf vigor, root and fruit growth, and soil structure, while aiding in the proliferation of soil microorganisms. ArborChar is designed to have neutral pH and produce minimal dust, and will not burn plant tissue. Made with biochar sourced from sustainably grown, untreated, unpainted, hardwood trees, and loaded with organic nutrients, minerals, blood meal, and bone meal, ArborChar All Purpose Grow 5-6-4 and Root, Flower & Fruit 3-6-4 go above and beyond traditional biochar products.

What is Biochar?

Biochar is an extremely porous charcoal, rich in carbon which enhances soils through retention of water and nutrients and increasing soil biodiversity. The use of biochar to enhance soil productivity goes back 2000 years, when Amazonians smoldered agricultural waste in pits or trenches. Today, biochar is made through a modern process called pyrolysis, the thermal decomposition of organic matter in the absence of oxygen, producing a porous and activated carbon material which helps to build soil, conserve water, and sequester carbon.

Carbon Sequestration

The burning and natural decomposition of organic matter and agricultural waste adds large amounts of CO₂ to the atmosphere. Biochar can reduce the growth in atmospheric greenhouse gas levels by holding carbon in soils for thousands of years. The production of biochar is a carbon-negative process which removes more CO₂ from the atmosphere than is released.

Water Retention & Soil Amendment

Biochar is recognized as offering several benefits to soil related to its porous nature and high surface area. The structure of biochar can attract and retain both water and water-soluble nutrients. Thus, nutrients are retained for the plant's benefit instead of leaching into water. The porous structure is also an extremely suitable habitat for beneficial microorganisms, which play an essential role in soil fertility and plant growth.

Soil pH & Cation Exchange Capacity

Nutrients are more plant available in acid soils. Optimum soil's pH range from 5.5 to 7.0. Biochar generally has high pH (e.g. 6 – 10) so in areas where a soil pH is low, biochar can help to buffer the acidity in the soil, making nutrients like Iron and Phosphorus available for plants to take up through their roots and minimizing deficiencies.

Biochar can help create soils with high Cation Exchange Capacity (CEC). Surfaces that are negatively charged like biochar and organic matter hold on to positively charged nutrients because opposite charges attract. The soil can then "exchange" these nutrients with plant roots.

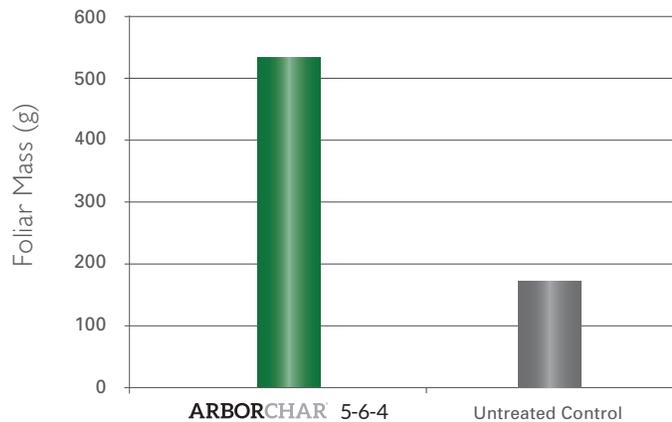


Using ArborChar:

Use ArborChar on indoor and outdoor vegetables, herbs, annuals, perennials, trees, and shrubs. Add 1 to 4 tsp of ArborChar per container or use 3 cups to cover 200 sq. ft. Mix in 1 to 6 inches below the soil surface in new planting beds, around established plants, or in root zone when planting. Repeat applications throughout the growing season every two to four weeks to maintain optimal nutrition. Water in thoroughly after applications. For best results, plant with compost and water with NutriRoot.®

All Purpose Grow 5-6-4 offers a balanced package of NPK for general plant growth as well as 6% Calcium to help inhibit Blossom End Rot and 2% Magnesium to prevent yellowing. Root, Flower & Fruit 3-6-4 has a reduced nitrogen percentage to allow plants to focus on rooting and fruiting and contains 10% Calcium, and 2.5% Magnesium. ArborChar is available in 1 & 4 lb. bags and covers 200 to 800 sq. ft.

Foliage Growth of Potted Forsythia 5 Weeks After Treatment



About Arborjet®, Inc.

Founded in 1999, Arborjet has developed the leading tree injection equipment and formulations to protect trees while supporting the landscape industry. After years of research, Arborjet is pleased to also bring effective and sustainable solutions to the home gardener. Call 781.935.9070 today to learn more or visit www.arborjet.com/horticulture.

