

BioPlex BioCHAR

An Engineered
BIO-CHAR – COMPOST – SEAWEED –
PGIR – AXIS®



Contains: BioCHAR Carbon, AXIS Diatomaceous Earth, Seaweed Extract, Humates, Endo, EctoMycorrhiza, PGIR (Plant Growth Inducing Rhizobacteria)



SOIL & ROOT Zone Amendment

BioPlex BioCHAR Bio's PLUS PGIR™ contains high levels of CARBON and Oxygen – arguably one of the most valuable organic soil conditioners. Ornamentals, in order to grow and survive in diverse landscape outplantings, require living healthy soil that is built upon a sustainable bio-habitat within the root rhizosphere. All healthy soils are supported by a vast world of microbes and beneficial fungi: bacteria and fungi that live in or around the plant system. Microbes and fungi support plant health by increasing the availability of nutrients, and to do so on a sustainable basis, require an aerobic, microporous, bio-habitat environment. At the basic foundation of the porous bio-habitat is the Axis® Diatoms and the BioChar physical properties contained exclusively in **BioPlex BioCHAR Bio's PLUS PGIR™**. Being inherently stable and very porous, it persists a longtime in the soil and therefor increases plant hydration and adsorption capacity to keep plant vegetation and root structures hydrated through periods of extreme heat and drought. In addition, with an 80% plus CARBON footprint, it neutralizes excessive soluble salt residues whether from fertilizers, the environment or ice-melters.

BioPlex BioCHAR Bio's PLUS PGIR™ fills a unique role in facilitating the long-term retention of moisture and nutrients necessary to help the critical bio-ecosystem thrive within the root rhizosphere of both TURFGRASSES and ORNAMENTALS. A sustainable bio-ecosystem is a fundamental, agronomic prerequisite required to maintain optimal plant and soil health throughout the uncertain and changing environmental conditions that greenhouse, nursery and outplanted ornamentals are routinely required to endure.

Sustainable Plant Health and Vigor begins with **BioPlex BioCHAR Bio's PLUS PGIR™**.

DIRECTIONS FOR USE:

Smaller Ornamental Trees Incorporated w-backfill at installation.	2-3 lbs per each 18-24" plant Height or Spread 3-5 lbs per 1" caliper for B&B plants
4" PLUS, Spade Dug Ornamental Trees Incorporated w-backfill at installation.	5-10 lbs per 1" caliper Trunk Diameter
Annual GC Greens, Tee & Fairway Topdressing	Apply 5-7 lbs per 1000 square feet area with other topdressing aggregate and drag into open aeration plug holes.
GC Greens-Tee-Fairway New Construction	Incorporate at 120 lbs per 1000 square feet area.
Athletic Field Topdressing, Garden & Flower Beds, Seed Beds	10-15 lbs per 1000 square feet Annually
Container Potting Soil Mix	Add 3-5% by Weight and MIX Thoroughly
Top Soil Amendment	Add 5 lbs per 1000 square feet
Hydro-Seeding Tank Mix Amendment	10-20 lbs per Acre
Ice-Melter Soluble Salt Neutralization in Winter	Apply 3-5 lbs per Month per 1000 square feet bed or turfgrass areas subject to Ice-Melter Application
Turfgrass Soluble Salt Neutralization	Apply 1-2X Annually at 5-7 lbs per 1000 square foot area in growing season
Landscape Bed Construction	Incorporate 10-20 lbs per 1000 square feet
Annual & Perennial Beds	3-5 lbs per 1000 square feet

Vertical Mulch Application-Remediation of Construction Compaction Damage

Ornamental Trees & Shrubs:
Auger holes on 3' centers, in 360° concentric circle formations 3 feet apart, starting 3-6 feet inside to 5-10 feet outside the outer branch canopy edge (drip-line). Auger holes 3 inches wide x 10 inches deep and fill the bored holes to soil surface level. It will require approximately 1.5-2.5 lbs of **BioPlex BioCHAR Bio's PLUS PGIR™** to fill (1) 3" W x 10" D hole. (2) 20 lb bags will treat 250 sq. ft. area - 1 application.

BIOLOGICAL ACTIVE INGREDIENT(S):

Live Beneficial Microbes	0.128%
Arthrobacter globiformis	1X10 ⁸ CFU/gram
Azospirillum brasilense	1X10 ⁸ CFU/gram
Azospirillum lipoferum	1X10 ⁸ CFU/gram
Azotobacter chroococcum	1X10 ⁸ CFU/gram
Azotobacter paspali	1X10 ⁸ CFU/gram
Azotobacter vinelandii	1X10 ⁸ CFU/gram
Bacillus amyloliquefaciens	1X10 ⁸ CFU/gram
Bacillus atrophaeus	1X10 ⁸ CFU/gram
Bacillus licheniformis	1X10 ⁸ CFU/gram
Bacillus megaterium	1X10 ⁸ CFU/gram
Bacillus pumilus	1X10 ⁸ CFU/gram
Bacillus subtilis	1X10 ⁸ CFU/gram
Bacillus thuringiensis	1X10 ⁸ CFU/gram
Brevibacillus brevis	1X10 ⁸ CFU/gram
Cellulomonas fimi	1X10 ⁸ CFU/gram
Lysinibacillus sphaericus	1X10 ⁸ CFU/gram
Micrococcus luteus	1X10 ⁸ CFU/gram
Phanerochaete chrysosporium	1X10 ⁸ Prop./gram
Pseudomonas fluorescens	1X10 ⁸ CFU/gram
Pseudomonas putida	1X10 ⁸ CFU/gram
Rhodobacter sphaeroides	1X10 ⁸ CFU/gram
Rhodopseudomonas palustris	1X10 ⁸ CFU/gram
Rhodospirillum rubrum	1X10 ⁸ CFU/gram
Streptomyces griseus	1X10 ⁸ CFU/gram
Trichoderma reesei	1X10 ⁸ Prop./gram

NON-PLANT FOOD INGREDIENT(S):

EctoMycorrhiza (11 Species)	1.175%
Rhizopogon villosullus	L. laccata
R. luteolus	(38 million prop./lb each)
R. amylopogon	Sclerotium cepa
R. fulvigleba	S. citrinum
(95 million prop./lb each)	(189 million prop./lb each)
Pisolithus Tinctorius	Suillus granulatus
(568 million prop./lb)	S. punctatapius
Laccaria bicolor	(118 million prop./lb each)
EndoMycorrhiza (9 Species)	1.697%
Glomus intraradices	G. deserticola
G. mosseae	Gigaspora margarita
G. aggregatum	Paraglomus Brasilianum
G. etunicatum	G. Monosporum
(5,900 prop./lb each)	(454 prop./lb each)
G. clarum	

Calcined Diatomaceous Earth (Axis®):	5.0%
Humic Substance:	49.0%
Ascophyllum nodosum seaweed:	3.0%
BioChar (Carbon 88%):	40.0%

Derived From: Ascophyllum Nodosum Seaweed Extract, Aerobically Composted Poultry Litter, Humic Substance, AXIS® Diatomaceous Earth, BioChar Carbon

Storage and Handling

Store product in a cool, dry environment, avoid excessive heat, moisture and prolonged exposure to direct sunlight. If you are only utilizing a portion of the bag be sure to secure it tightly before storing. Recycle bag or dispose of properly if recycling facility is unavailable. Wash hands thoroughly after handling product. Refer to MSDS for more details on product.

Warranty

BioPlex, Inc. warrants that this product conforms to the analysis on its label. When used in accordance with label directions, under normal conditions, this product is reasonably fit for its intended purposes. Since timing, method of application, weather, plant, and soil conditions, mixture with other chemicals, and other factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions or under conditions which are abnormal or not reasonably foreseeable. The user assumes all risks of any such use.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>

Net Weight
20 lb. Bag (9.12 Kg)



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