

## A New Carbon Link™ Fertilizer



PermaMatrix® BSP  
**G R O W**  
Organic Energy™



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**4-9-3**

Organic Energy™



Made in USA



Net Wt 10 lbs / 4.53 kg



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### N-P-K

- Nitrogen (N) is slow release and derived from sustainably sourced fermented cotton seed meal.
- Phosphorus (P) and Potassium (K) are derived from sustainably sourced fish bone meal.

### Minerals

- Provide the essential vitamins plants need for vigorous development, derived from locally sourced Basalt.

### Biochar is life supporting soil carbon that is highly porous and important in plant development.

- Provides superior habitat for microbial and fungal development
- Increases nitrogen delivery to plants (Carbon Link™)
- Reduces nitrate leaching
- Increases soil moisture retention and fertilizer efficiency

### Soil Humus

- Sourced from sustainable organic matter
- Provides humic acids required for plant vigor

### Mycorrhizae and Mycelium

- Beneficial soil fungi connect plant roots using Mycelium to form a Mycorrhizal association. Vigorous root development ensues, resulting in better nutrient transfer and stronger plants.



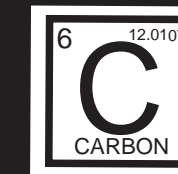
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### USES for PermaMatrix® BSP Grow

- Add to potting soils for planter pots
- Incorporate in plant beds
- Apply directly to lawns

Easily applied using a broadcast or drop spreader at the recommended rates.

For detailed application rates visit  
[PermaMatrixBSP.com/apprates](http://PermaMatrixBSP.com/apprates)



A CARBON based fertilizer containing biochar, minerals, organics and living micro-biological elements that replenishes tired and worn out soil the same way that Nature does.

PermaMatrix® BSP **GROW** contains biochar — important biological carbon that:

- improves soil structure
- retains soil moisture
- supports living soil micro-organisms

PermaMatrix® BSP **GROW** delivers nutrients through soil to the plant using a unique CARBON LINK™. It's the organic solution to overuse of petroleum based fertilizers.

This high Carbon fertilizer increases biological activity in soil while providing a long lasting nutrient supply. Nutrients are released naturally and continuously throughout the growing cycle.

### PermaMatrix®BSP Grow

4-9-3  
General Purpose Fertilizer for All Plants  
Guaranteed Analysis

Total Nitrogen (N).....	4%
3.65% Water Insoluble Nitrogen	
0.35% Water Soluble Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ).....	9%
Soluble Potash (K <sub>2</sub> O).....	3%
Magnesium (Mg).....	1.5%
Iron (Fe).....	0.5%

Derived from: Cottonseed Meal, Fish Bone Meal, Langbeinite, Basalt Powder

#### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS

#### Microbial Inoculants (Nitrogen Fixers):

Azospirillum lipoferum .....	7.35 x10 <sup>7</sup> CFU/lb
Azospirillum brasilense.....	7.35 x10 <sup>7</sup> CFU/lb

#### Microbial Inoculants (Biochemical Decomposers):

Bacillus subtilis .....	1.37x10 <sup>12</sup> CFU/lb
Bacillus licheniformis.....	1.10x10 <sup>12</sup> CFU/lb
Bacillus amyloliquefaciens.....	2.75x10 <sup>11</sup> CFU/lb

#### Endomycorrhizal Fungi:

Glomus intraradices.....	0.275 propagules/g
Glomus mosseae.....	0.275 propagules/g
Glomus aggregatum .....	0.275 propagules/g
Glomus etunicatum .....	0.275 propagules/g

#### Soil Amending Ingredients: Reed Sedge Peat, Doug Fir Forest Biochar

**Directions For Use:** Broadcast, Drill or Apply by Hand to all soils to enhance biological activity and provide nutrients to plant  
Store in a cool dry place

PermaMatrix Inc. PO Box 1210, Fairview, OR 97024 [www.permamatrixbsp.com](http://www.permamatrixbsp.com)  
Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>

### PermaMatrix® BSP Grow App Rate

Per 1,000 Square Feet	20 lbs
Per Cubic Yard Bulk Soil Mix	5-10 lbs
Per Cubic Foot Soil Mix	3-6 oz