

Soil Vigor

Introduction

Soil Vigor is microbial inoculate, consists of synergistic consortium of naturally occurring soil microbes, designed and created to break down and increase the organic matter within the soil, all while freeing trapped carbon and other vital nutrients. When use soil mate, it will help farmers improve the health of their soil and utilization rate of fertilizer, increase the uptake of the plant nutrients, enhancing its resistance to both diseases and pathogens. It will also aid in better nutrient cycling which greatly improves the soil's structure, maximizing root growth and better retaining soil moisture.



Active Ingredient

Bacillus Bacteria

Bacillus subtilus..... 2×10^8 cfu/g
 Bacillus amyloliquefaceins..... 2×10^8 cfu/g
 Bacillus licheniformis 2×10^8 cfu/g
 Bacillus megaterium..... 2×10^7 cfu/g
 Bacillus Laterosporus..... 2×10^7 cfu/g

Trichoderma

Trichoderma harzianum..... 3.6×10^6 cfu/g
 Trichoderma Viride..... 2.4×10^6 cfu/g

Working Method

- ✓ Biological Nitrogen Fixation – The process of assimilating atmospheric nitrogen into organic compounds, especially by microorganisms.
- ✓ Phosphate Solubilization – The process of solubilizing bound phosphate in the soil and making it available for uptake by plants.
- ✓ Phytohormone Production – The process of using carbon sequestration to increase healthy plant hormones and storing carbon in the soil which drastically increases the amount of available nitrate nitrogen.
- ✓ Mobilization and Mineralization – The process of mobilizing and mineralization of soil nutrients such as salt, phosphate, magnesium, and calcium into a form that is easily used by the plant.
- ✓ Saprophytic Competence – Saprophytes live on the dead or decomposing matter. They help the microbes in Soil Vigor products to compete with native soil microbes, allowing them to better perform their intended functions.

Benefit:

- ✓ Restores beneficial soil bacteria
- ✓ Enhance soil quality and fertility
- ✓ Unlock bound up nutrients
- ✓ Stimulate biological activity
- ✓ Extend strong root systems
- ✓ Promote plant growth and increase yields.
- ✓ Regulate pH in acid and alkaline conditions
- ✓ Reduce the use of inorganic fertilizers (NPK).
- ✓ Reduce the toxic chemical compounds remaining in the soil

Dosage & Method

- Apply 1 kg / MT organic fertilizer for homemade biofertilizer , Can use mix with every fertilizer
- Apply 3 kgs per acre by soil drench or irrigation from the beginning of crop planting.
- Reapply after 10~12 weeks OR when stressful situation for the plants OR in times when the plants has a maximum need for nutrients
- Brew 1,000 g Soil vigor into at least 20 liters of non-chlorine water for at least 4 hours. Continue to dilute the brewed mixture into at least 250 liters of non-chlorine water.

When to apply Soil Vigor

- On **eroded soils** or at risk of degradation. Especially recommended in combination with Soil Vigor.
- **At the beginning of the crop cycle** to amplify the full potential of the soil from the beginning.
- **Throughout the crop cycle**, to maintain the beneficial activity that provides the climax of microbial life in the soil.

Caution

This product is suitable for all kinds of crops. Please consult with your account manager for usage and dosage.

According to the local soil fertility and expected yield, apply chemical fertilizer, bacterial fertilizer and organic fertilizer as appropriate.

Packing and shelf life

2 year shelf life, 1 kg per bag.

Storage

Store in cool and dry, keep out of direct sunshine and moisture. Keep out of reach of children.