

## Soil Fertil

### Introduction

**Soil Fertil** is a premium biofertilizer containing soil enhancing Bacillus bacteria, Trichoderma fungi and other . The synergy of these biological act on the plant’s rhizosphere and grow close to the root to promote healthy growth. The purpose of this product is to enhance plant growth and vigor by optimizing nutrient availability and uptake. Soil Fertil improves plant performance and yield potential by promoting better root growth and soil structure.



### ACTIVE INGREDIENT:

#### Bacillus Bacteria

- Bacillus subtilus..... $2 \times 10^6$  cfu/g
- Bacillus amyloliquefaceins..... $2 \times 10^6$  cfu/g
- Bacillus licheniformis .....  $2 \times 10^6$  cfu/g
- Bacillus thuringiensis,.....  $1 \times 10^6$  cfu/g
- Bacillus cereus.....  $1 \times 10^6$  cfu/g

#### Trichoderma

- Trichoderma harzianum.....  $3.6 \times 10^5$  cfu/g
- Trichoderma Reesei.....  $2.4 \times 10^5$  cfu/g

#### Other beneficial bacteria

- Lactobacillus.....  $1 \times 10^5$  cfu/g
- Paecilomyces lilacinus.....  $1 \times 10^5$  cfu/g
- Penicillium Bilaiae.....  $1 \times 10^5$  cfu/g

#### Total other ingredients:

- Organic matter ( Soybean meal mix ) ...40%
- Amino acid .....10%
- Si, Ca, S, .....15%
- Trace element(B, Fe, Cu, Mn、 Mo) ..... 2%

## Vigor 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
- ✓ Promote plant growth and increase yields 20~30%
- ✓ Reduce the use of inorganic fertilizers (NPK).
- ✓ Enhance soil health and fertility
- ✓ Degrade the chemical residues in the soil
- ✓ Enhance crop disease resistance
- ✓ Promote optimal soil pH under extreme environmental condition.

## Application Rates:

Suitable for all kinds of crops, vegetables, Trees and palms, It may be applied by itself, or combined with a variety of other fertilizer programs.

Apply 60~180 kg per acre for crops;

Apply 480~1200 kg per acre for vegetables;

Apply 720~1500 kg per acre for fruit trees;

## Caution

According to the local soil fertility and expected yield, apply chemical fertilizer, bacterial fertilizer and organic fertilizer as appropriate. Please consult supplier for different crops application rate

## Packing and shelf life

20 / 40 kg per Polyethylene bags, Or Bulk Load

Granule / Powder type, 2 year shelf life,

## Storage

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