

# Vitamin Sea

## HUMUS

40% Organic Matter

ph: 6,7 | EC: 2,8 mS/cm | Appearance: Solid | Black-Dark Odorless

### What is Vitamin Sea Humus?

Vitamin Sea Humus is a highly nutritious soil conditioner!

Vitamin Sea Humus is a soil conditioner derived from natural aerobic decomposition process of organic materials mainly fish via Aerated Static Pile (ASP). It is non-phytotoxic, odorless, biologically stable and with high degree of humification and therefore rich in humic compounds. In addition, it contains essential nutrients for plant growth (macronutrients and trace elements) and is suitable for all crops. It contains Zeolite that limits nutrient losses from leaching or venting while at the same time increasing water holding capacity and uniform distribution on the ground.



### Method of application & Dosages

Vitamin Sea Humus is applied at the planting site, before transplanting or linearly (along the planting line). In eroded soils with a low percentage of organic matter, universal application is recommended on entire surface.

Generally, apply to following dosages:

**At the planting site:** 150-200 ml/plant or 2-4 liters/tree

**Along the planting line:** 3.000-6.000 liters/Ha

**Universal application:** 2.5m<sup>3</sup> and above depending on soil needs and particularities

## Why do we choose Vitamin Sea Humus?

- Increases chemical fertilizers use effectiveness.
- Favors healthy plants growth as it facilitates nutrients uptake such as iron and phosphorus.
- Protects plants from oxidative stress caused by adverse growing conditions by increasing activity of antioxidant enzymes within plants and by extension their tolerance.
- Promotes the production of secondary metabolites within plants (phenolic compounds) by strengthening their defense mechanism against various pathogens.

### Chemical properties

increases cations' exchange capacity favoring essential nutrients holding capacity for plant growth while at the same time stabilizes soil pH.

### Natural properties

improves soil structure preventing its erosion while favors water and nutrients holding in sandy soils.

### Biological properties

favors multiplication and growth of beneficial microorganisms naturally present in the soil.

Vitamin Sea Humus production is governed by the principle of cyclicity and it constitutes an alternative approach to organic materials & by- products recycling of the agri-food sector with obvious environmental benefits.

## Composition

Vitamin Sea Humus is applied mainly before plants or seedlings installation. In developed trees it is recommended to apply at the projection area of tree canopy with light incorporation followed by satisfactory watering.

pH: 6,7

| Nutrient element                            | % w/w           |
|---------------------------------------------|-----------------|
| Total Organic Matter                        | 48,2 dry matter |
| Organic Matter                              | 40              |
| Organic Carbon (Corg)                       | 22,4            |
| Organic Nitrogen (Norg)                     | 2,10            |
| Phosphorus (P <sub>2</sub> O <sub>5</sub> ) | 1,90            |
| Total Potassium (K <sub>2</sub> O)          | 1,44            |
| Calcium (CaO)                               | 0,90            |
| Iron (Fe)                                   | 0,80            |
| Magnesium (MgO)                             | 1,00            |
| Manganese (Mn)                              | 0,038           |
| Zinc (Zn)                                   | 0,012           |
| Sulfur (SO <sub>3</sub> )                   | 0,22            |
| C/N                                         | 10,6            |
| EC                                          | 2,8 mS/cm       |
| Humidity                                    | 22,4% (105 °C)  |