

## **BENEFITS OF USING ECO-PLON VOLCANIC MINERALS ®**

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- Soil bio stimulator – ecological, natural composition of minerals in the form of macro- and microelements, obtained from volcanic and sedimentary rocks.  
Commercial name ECO-PLON VOLCANIC MINERALS ®.
- Contains macro- and microelements essential during humus production process and plants nutrition.
- Easily assimilated macro elements:  
Nitric nitrogen –  $56 \text{ mg/dm}^{-3}$ , Ammonical nitrogen -  $1,3 \text{ mg/dm}^{-3}$ , Phosphorus –  $74 \text{ mg/dm}^{-3}$ ,  
Potassium –  $86 \text{ mg/dm}^{-3}$ , Magnesium  $440 \text{ mg/dm}^{-3}$ , Calcium –  $5040 \text{ mg/dm}^{-3}$ , Sodium –  $135 \text{ mg/dm}^{-3}$ ,  
Chloride –  $17 \text{ mg/dm}^{-3}$ .
- Microelements slowly decaying in a form of oxides: Iron, Titanium, Manganese, Sulfur, Copper, Silicon.
- Content of heavy metals – maximum, limit values:  
Arsenic –  $7,78 \text{ mg/kg}$ , Cadmium – under  $1 \text{ mg/kg}$ , Lead –  $33,5 \text{ mg/kg}$ , Mercury –  $0.006 \text{ mg/kg}$ .
- Causes remineralization of the soil, enhancing its humus layer, contributes towards growth of good soil bacteria by improving its biological activity, minerals are gradually released to the soil through soil bacteria.
- Has sorption properties of water to the volume of given molecules, thus retains water in the soil, it is not leached of the soil by the groundwater.
- Adjusts mineral balance of the soil and plants, thus has an impact on better growth of the plants and increased yielding.
- Has an impact on pH of the soil – adjusts its acidity.
- The contained silicon reinforces plants resistance on stress and diseases.  
Silicon affects stems hardening –stems become stronger, more resistant on fungal diseases, freezing and lodging.
- Increases yields by 10 – 25% and in the case of for example cucumbers – by 50%.
- Enhances the color of the plants - it is more intensive, enhances the taste of the fruits and vegetables.
- The minerals absorbed by plants – eaten by people and animals, deliver appropriate macro- and microelements for their proper development.
- It is beneficial for the development of the root and aboveground part, impacts on better yielding.
- There is no possibility of over-fertilizing.
- Added to slurry or compost, reduces the loss of nitrogen by 27%.
- May be in a powder, granular or micro-granulate form.
- Can be used to mechanically combat aphids, caterpillars, slugs, beetles and other pests attacking plants. No need of grace period.