



## PRODUCT CARD

ECO-PLON VOLCANIC MINERALS

NATURAL, MINERAL, ECOLOGICAL  
PRODUCT MADE OF VOLCANIC LAVA



ECO-PLON VOLCANIC MINERALS – ecological, mineral soil properties improving agent and is a mineral composition of volcanic lava and sedimentary rocks, dedicated for root crops cultivation.

### FOR ROOT CROPS

- natural, ecological, rich in macro and microelements
- increases yielding and improves its quality
- supports rooting and aboveground part development
- strengthen the plants and protects against freezing, overdrying
- adjusts mineral balance of the soil

The product is natural and supports plant development by improving the physicochemical properties of the soil and providing necessary macro and microelements.

### ADMISSIONS AND CERTIFICATES



The product was made on the basis of the invention, registered and processed as a patent in PCT system in Geneva for 148 countries.

The product has research and opinions of:  
New Chemical Syntheses Institute in Puławy,  
Institute of Horticulture in Skierniewice to use for:

- cultivation of vegetable plants
- cultivation of fruit plants
- cultivation of ornamental plants and lawns

Institute of Soil Science and Plant Cultivation State Research Institute

- Department of Plant Nutrition and Fertilization
- A testimony of qualification of the product under the name of ECO-PLON VOLCANIC MINERALS to use in ecological agriculture under reference NE/360/2017
- European Green Leaf Certificate
- European Guarantee of Highest Quality

## GENERAL CHARACTERISTICS

- Powdered, granulated and micro granulated form
- Contains natural macro and microelements necessary for plants growth, fine development of root system and bulbs
- Has a beneficial impact for a yielding growth 5 - 15%
- In the powdered form, additionally NO<sub>3</sub> up to 2% and NH<sub>4</sub> up to 0,25%

## MACRONUTRIENTS:

6 easily assimilable macronutrients in the oxide form:

-Calcium	CaO	to	6,80%
-Phosphorus	P <sub>2</sub> O <sub>5</sub>	to	0,70%
-Potassium	K <sub>2</sub> O	to	2,90%
-Magnesium	MgO	to	4,20%
-Sulfur	S <sub>0</sub> <sub>3</sub>	to	3,50%
-Sodium	Na <sub>2</sub> O	to	3,40%

## MIKROSKŁADNIKI:

-Manganese	Mn <sub>2</sub> O <sub>3</sub>	to	0,30%
-Titanium	TiO <sub>2</sub>	to	1,40%
-Iron	Fe <sub>2</sub> O <sub>3</sub>	to	9,80%
-Aluminium	Al <sub>2</sub> O <sub>3</sub>	to	14,00% (in assimilable form 3% - 5%)
-Silicon	SiO <sub>2</sub>	to	59,00% (in assimilable form 5% - 8%)
-Copper	CuO	to	0,030%
-Zinc	ZnO	to	0,01%

-Trace amounts (sufficient for plants) of chlorine, nickel, niobium, hafnium, molybdenum, zirconium, vanadium, lithium, chromium, strontium, selenium

## PROPERTIES OF THE MINERALS

- Minerals occur in the form of oxide, easily assimilable
- Phosphorus and potassium enhance root system
- Sulfur facilitates absorbing nitrogen by plant; necessary for protein synthesis in the plant
- Silicon creates a natural barrier for pathogens which attack the plant, adjusts an absorption of phosphorus uptaken by the plant
- Titanium increases the activity of iron ions, stimulates uptake of nutrients from the soil
- Minerals enhance the plant against biotic stress and pest attack
- Due to sorption properties of the product, there is an opportunity of delivering the optimal amount of nutrients from the soil
- Strengthen the plant against water scarcity
- Has sorption properties up to 100% of the product's particles volume
- The product is not leached into the ground water
- Enhances the taste quality of root crops
- Extends the holding period of root crops

## THE APPLICATION OF THE PRODUCT IMPACTS ON:

- Soil crumbling, which is more aerated and enables easier absorption of macro and microelements by the plant
- Remineralization of the soil and creation of humus
- Slow and systematical release of nutritional products
- Mineral balance of the soil and plants
- Increased activity of soil microorganisms

## THE SYSTEM OF APPLICATION

### Date of application:

- Before under the forecrop or before skimming
- A dose of 2 – 3 tons per hectare before skimming
- At the level of humus over 80% of nutrients
- A dose of 3 – 5 tons per hectare before skimming
- At the level of humus 50 – 70%

Propagate the substance steadily on the soil surface and plough to the depth to 20 cm.

## BEFORE THE SEEDING

It is recommended to initiate the seeds with ECO-PLON VOLCANIC MINERALS for grain initiation (powdered form).

2 - 3 days before the sowing, mix the seeds with the dressing,  
In a dose of 1 tone of dressing per 10 tones of seeds,  
Leave in a dry place until sowing.

## WE WILL REACH:

- The destruction of pathogens and pests parasitizing on the grains.
- Providing the nutrients to sprouting grains.

## TYPES OF PRODUCTS:

- Powdered
- Granulated
- Micro granulated

## STORAGE

Store in a dry warehouse or under the shelter, in correctly marked, original packaging. Keep dry.

- No possibility of expiration
- No possibility of over-feeding
- Natural, non-toxic product
- Keep away from children
- Avoid contact with eyes
- Avoid inhaling product dust
- Work in accordance with the principles of OSH.

## IN CASE OF DUST GOT INTO THE RESPIRATORY TRACT:

- Carry the injured person into the fresh air
- Use dust masks in case of large dustiness

## PACKAGING AND TRANSPORT

Packaging:

- Plastic bags 1 – 20 kg
- Paper bags 5 – 20 kg
- Big – bag 500 – 1000 kg
- Transport on pallets

## SERVICE AND CONSULTING

We provide professional advice in the area of adjusting the product to the type of soil and needs of plants. We collaborate with the Institutes IUNG and INSH in Puławy, Institute of Horticulture in Skierniewice, Wrocław University of Environmental and Life Sciences, The Faculty of Life Sciences and Technology, Department of Plant Nutrition, "Poltegor – Instytut" Institute of Open Cast Mining.

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