



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,

FOR VEGETABLES

- 100% natural, ecological, rich in macro and microelements
- Causes an intensive growth of the plants and the root system
- Vegetables with rich taste and color
- Creates a soil crumbling
- 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
- Changes the sorption properties of the soil, an amendment of light soils structure
- Contains natural macro and microelements necessary for plants growth, fine development of root system and aboveground part
- Has a beneficial impact for a yielding growth
- Increases plants' immunity to fungus diseases and pests

MACRONUTRIENTS:

7 easily assimilable macronutrients:

Calcium	Ca	to 5080,00 mg/dm ³
Phosphorus	P	to 74,00 mg/dm ³
Potassium	K	to 86,00 mg/dm ³
Magnesium	Mg	to 460,00 mg/dm ³
Sulfur	S	to 8,00 mg/dm ³
Sodium	Na	to 130,00 mg/dm ³
Nitrogen	No ₂	to 56,00 mg/dm ³
Ammonium	NH ₄	to 1,30 mg/dm ³
Chlorine	Cl	to 16,00 mg/dm ³

MICRONUTRIENTS:

Manganese	Mn ₂ O ₃	to 0,15%
Titanium	TiO ₂	to 1,10%
Iron	Fe ₂ O ₃	to 12,60%
Aluminium	Al ₂ O ₃	to 14,00% (in assimilable form 3%-5%)
Silicon	SiO ₂	to 54,00% (in assimilable form 5%-8%)
Copper	CuO	to 0,040%

Trace amounts / sufficient for plants / of zinc, nickel, niobium, hafnium, molybdenum, zirconium, vanadium, lithium, chromium, strontium, selenium

PROPERTIES OF THE MINERALS

Minerals are not leached into the ground water

- Easily assimilable for plants
- Enable nourishing the plant during a whole vegetation period
- Silicon impacts on stiffness of the stalks, enhance the plants immunity to diseases
- create a natural barrier for pathogens which attack the plant
- stimulate the uptake of nutrients from the soil
- Minerals enhance the plant against biotic stress and pest attack
- Strengthen the plant against freezing, lodging and water scarcity

THE APPLICATION OF THE PRODUCT IMPACTS ON:

- Soil crumbling, which is more aerated and enables easier absorption of macro and microelements by the plant
- Supplement the mineral composition of the soils, especially the light soils
- Slow and systematical release of nutritional products
- Mineral balance of the soil and plants
- Increased activity of soil microorganisms
- Taste quality and intensive color
- Good quality of preserves
- Prolongs the period of storage of the vegetables
- Yielding growth 5 – 30%

THE SYSTEM OF APPLICATION

Before skimming

- A dose of 3 – 5 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 – for large-area crops
- dig – for plot cultivation
- can be used as top dressing

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:

- Cartons 1 – 5 kg
- 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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