



## 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 LAWNS

- 100 % natural, ecological product
- Causes intensive growth of roots by creating turf
- Guarantees green and thick lawn
- Creates 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
- Remineralizes the soil
- Contains natural macro and microelements necessary for plants growth, fine development of root system and the green part of the lawn
- Increases plants' immunity to fungus diseases

## MACRONUTRIENTS:

8 easily assimilable macronutrients:

-Nitrogen	$\text{No}_3$	to 2,00%
-Ammonium	$\text{NH}_4$	to 0,25%
-Calcium	Ca	to 13,00%
-Phosphorus	P	to 0,10%
-Potassium	K	to 0,10%
-Magnesium	Mg	to 12,00%
-Sulfur	S	to 0,03%
-Sodium	Na	to 2,00%

## MICRONUTRIENTS:

-Manganese	$\text{Mn}_2\text{O}$	do 0,16%
-Titanium	$\text{TiO}_2$	do 0,40%
-Iron	$\text{Fe}_2\text{O}_3$	do 8,00%
-Aluminium	$\text{Al}_2\text{O}_3$	do 14,50% (in assimilable form 3% - 5%)
-Silicon	$\text{SiO}_2$	do 50,00% (in assimilable form 5% - 8%)
-Trace amounts / sufficient for plants / of zinc, nickel, niobium, hafnium, molybdenum, zirconium, vanadium, lithium, chromium, strontium, selenium, copper		

## PROPERTIES OF THE MINERALS

- Minerals are not leached into the ground water
- Easily assimilable
- Enable nourishing the plant during a whole vegetation period
- Impact on the lawn growth intensity
- creates a natural barrier for pathogens which attack the plant
- reduce the growth of weeds and moss
- stimulate uptake of nutrients from the soil
- strengthen the plant against biotic stress and pests attack
- strengthen the plant against freezing and overdrying

## 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
- Intensive color
- Fine development of the root system, which creates a turf

## THE SYSTEM OF APPLICATION

Date of application – in the period from March to October

- 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:

- To plough – for big crops before sowing
- To grab – for sowing on the existent lawn

## 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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📍 ul.Towarowa 23  
43-100 Tychy  
📞 nip 583 118 81 60

🌐 [www.aineg-pol.pl](http://www.aineg-pol.pl)  
✉ [biuro@aineg-pol.pl](mailto:biuro@aineg-pol.pl)  
☎ +48 601244140