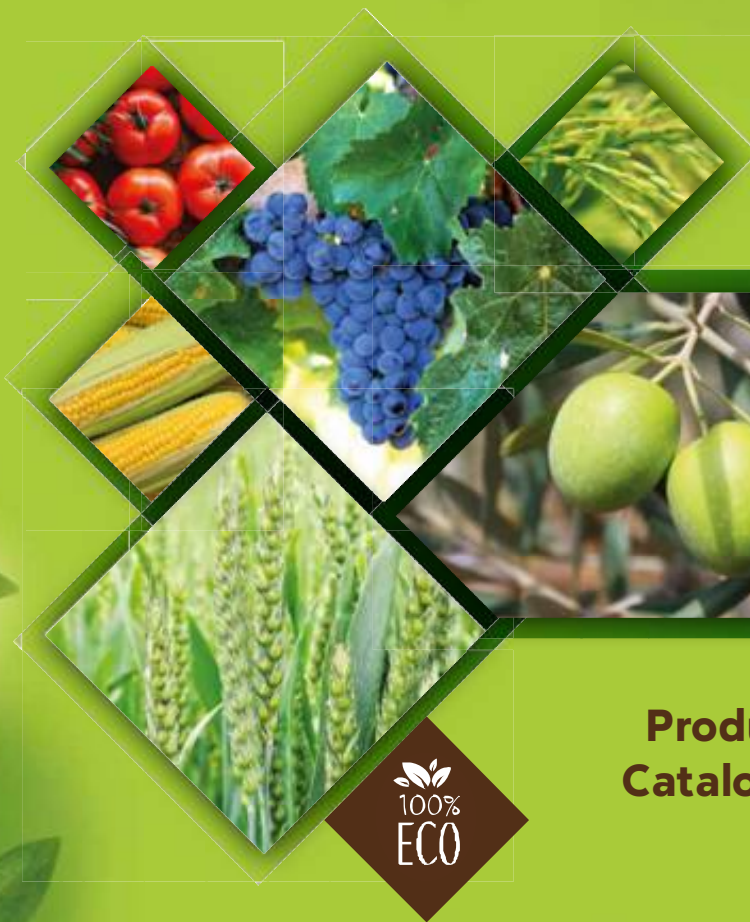




100%
ECO

Product Catalogue

Certificate of qualification of the product under the name:
OREPLON VOLCANIC MINERALS in organic farming under the number NE/857/2024



2019/2020





Ladies and Gentlemen

Thank you for choosing our catalog. It shows that you are not indifferent to how the healthy food that ends up on our tables is produced. Our products are 100% ecological. They are created on the basis of rock minerals properly personalized for a particular crop.

SOIL IMPROVERS - PFC3 (B)

They contain macro, microelements and trace elements in the form of about 23 minerals, thus providing complete nutrition for plants throughout the entire growing season.

Sold in the form of powder 1 - 80 microns, and granules 2 - 6 mm, in packages of 1 kg, 3.5 kg, 20 kg, 500 kg, 1000 kg.

- ✓ Universal
- ✓ For lawns
- ✓ For vines, flowers and herbs
- ✓ For vegetables
- ✓ For blueberries and cranberries
- ✓ Fruit trees and bushes
- ✓ For conifers

8

FERTILIZERS - Mineral inorganic PFC1

The appropriate composition of rock minerals improves the lumpiness of the soil and influences the development of bacteria from the Azotobacter group, which stimulate the plant to uptake nitrogen converted into NH_4 (ammonium form). Sold in the form of granules 2 - 6 mm, in packages of 20 kg, 500 kg and 1000 kg. It is possible to adapt the packaging to the customer's needs.

- ✓ OREPLON Potassiumsium fertilizer with sulfur, silicon and micronutrients
- ✓ OREPLON Fertilizer with phosphorus, calcium, sulfur, silicon and micronutrients
- ✓ OREPLON Fertilizer for root crops
- ✓ OREPLON Fertilizer for vegetable crops
- ✓ OREPLON Fertilizer for vine cultivation

12

PEST AVOID AGENT

Brought minerals to the right fraction of 1 - 80 microns avoid crop pests in a mechanical way. The product is non-toxic and does not require a withdrawal period.

17

About yield-producing soils



These soils are very fertile and readily used for agriculture.

-  have favorable chemical and physical properties
-  high nutrient abundance
-  high porosity, water capacity and sorption capacity
-  make crops abundant
-  fruits, vegetables and crops are well colored with great taste
-  rich in macro and micronutrient values



Coffee, cocoa, banana crops are common in Africa.



In Europe, vines, tomatoes, olives and oranges are grown on fertile soils.



In Western Europe, Brazil uses OREPLON Volcanic Minerals with positive effects on plants, soil and the environment.



Effect of minerals on plant development



- OREPLON Volcanic Minerals have a positive effect on the physical and chemical properties of the soil,
- They are not washed into groundwater and watercourses,
- They increase the resources of soil humus,
- They increase the quality and quantity of crops,
- Regulate soil pH,
- They are environmentally friendly.

They are used:

- in agriculture, ecological and conventional,
- vegetable farming,
- horticulture,
- floriculture,
- cultivation of green areas,
- recultivation of degraded areas.





It is a
mineral inorganic
mixed fertilizer CMC1.



It is digestible, in the form of microns. It absorb water to his self volume, retaining it for the plants.



The minerals contained in the form of macro, microelements and trace elements, create optimal conditions for the proper growth of plants, root crops, cereals, trees, shrubs and vegetables.



It causes quick and healthy growth of seedlings in nurseries.



It influences the regulation of soil pH.

Use



NATURAL NITROGEN ABSORPTION



Fertilization with OREPLON VOLCANIC MINERALS



The dependence of nutrient availability of nutrients on soil pH

Nutrient deficiencies, which occur when there are too few nutrients in plant tissues for proper metabolism.

There is an ionic imbalance, which leads to:

- yield reduction
- deterioration of crop quality

Microorganisms in the soil their absence causes:	OREPLON VOLCANIC MINERALS causes:
microbial imbalances	creating conditions for the development of microorganisms creates conditions for the dominance of beneficial microorganisms promotes the development of beneficial organisms that neutralize putrefactive processes affects the development of the root system in plants
large reduction of microorganisms in the soil	increases soil fertility
soil sterilization lack of microorganisms	creating soil tuberosity - aerating the soil
no circulation of matter in the soil	results in better crop quality and quantity
lack of macro and micronutrients for plant development	gives the comfort of growth, better quality and higher yields

SOIL IMPROVERS - PFC3 (B)

Contains macro- and micronutrients in the form of approximately **23 minerals**.
Provides complete plant nutrition throughout the growing season.

Dosage: 1 ton-1,2 tons per 1 hectare,

1,2 kg na 10 m²,

12 - 15 kg na 100 m²

Sold in the form of powder
1 – 80 microns, and granules
2 – 6 mm, in packages:

**1
Kg**

**3,5
Kg**

**20
Kg**

**500
Kg**

**1000
Kg**

It is possible to customize the packaging.

	natural, organic origin	content of micro and macro components	positive environmental impact	nitrogen uptake from the air, via Azotobacter	sorptive properties
	✓	✓	✓	✓	✓
synthetic fertilizers	✗	✗	✗	✗	✗
organic	✓/✗	✓/✗	✓/✗	✗	✗
meals, e.g.: basalt, dolomite	✗	✓/✗	✓/✗	✗	✗

Universal

FRACTION

- powder 1 - 80 microns
- granulate 2 mm – 6 mm

MACRONUTRIENTS - forms readily absorbed by plants

N-NO ₃	(nitrate nitrogen)	5,6 kg – 7,0 kg
N-NH	(ammoniacal nitrogen)	0,13 kg – 2,5kg
P ₂ O ₅	(phosphorus)	1,2% - 2 %
K ₂ O	(potassium)	3,5% - 4%
MgO	(magnesium)	5% - 7%
CaO	(calcium)	8,0% - 10%
Na ₂ O	(sodium)	2,8% - 3,4%
Cl	(chlorides)	0,17 %
S-SO ₃	(sulfur)	0,10 %

MACRONUTRIENTS SLOWLY SOLUBLE

Fe ₂ O ₃	(iron)	6 – 8%
SiO ₂	(silicon)	53 – 54%

MICRONUTRIENTS

Mn ₂ O ₃	(manganese)	0,20% - 0,5%
TiO ₂	(titanium)	0,50% - 1%
CuO	(copper)	0,3% - 0,4%
ZnO	(zinc)	0,01 %

Cd	(cadmium)	<1,0 mg/kg dry matter
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Grass

FRACTION

- powder 1 - 80 microns
- granulate 2 mm – 6 mm

MACRONUTRIENTS - forms readily absorbed by plants

N-NO ₃	(nitrate nitrogen)	up to 5,40 %
N-NH	(ammoniacal nitrogen)	up to 1,20 %
P ₂ O ₅	(phosphorus)	up to 0,60 %
K ₂ O	(potassium)	up to 1,50 %
MgO	(magnesium)	up to 6,70 %
CaO	(calcium)	up to 8,20 %
Na ₂ O	(sodium)	up to 3,20 %
Cl	(chlorides)	up to 0,15 %
S-SO ₃	(sulfur)	up to 0,10 %

MACRONUTRIENTS SLOWLY SOLUBLE

Fe ₂ O ₃	(iron)	up to 10,80 %
SiO ₂	(silicon)	up to 49,00 %

MICRONUTRIENTS

Mn ₂ O ₃	(manganese)	up to 0,22 %
TiO ₂	(titanium)	up to 1,80 %
CuO	(copper)	up to 0,02 %
ZnO	(zinc)	up to 0,01 %

Cd	(cadmium)	<1,0 mg/kg dry matter
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Vine, flowers and herbs

FRACTION

- powder 1 - 80 microns
- granulate 2 mm – 6 mm

MACRONUTRIENTS - forms readily absorbed by plants

N-NO ₃	(nitrate nitrogen)	up to 5,60 %
N-NH	(ammoniacal nitrogen)	up to 1,30 %
P ₂ O ₅	(phosphorus)	up to 0,60 %
K ₂ O	(potassium)	up to 2,10 %
MgO	(magnesium)	up to 4,80 %
CaO	(calcium)	up to 7,10 %
Na ₂ O	(sodium)	up to 4,10 %
Cl	(chlorides)	up to 0,17 %
S-SO ₃	(sulfur)	up to 0,10 %

MACRONUTRIENTS SLOWLY SOLUBLE

Fe ₂ O ₃	(iron)	up to 9,40 %
SiO ₂	(silicon)	up to 52,00 %

MICRONUTRIENTS

Mn ₂ O ₃	(manganese)	up to 0,19 %
TiO ₂	(titanium)	up to 1,70 %
CuO	(copper)	up to 0,02 %
ZnO	(zinc)	up to 0,01 %

Cd	(cadmium)	<1,0 mg/kg dry matter
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Vegetables

FRACTION

- powder 1 - 80 microns
- granulate 2 mm – 6 mm

MACRONUTRIENTS - forms readily absorbed by plants

N-NO ₃	(nitrate nitrogen)	up to 5,60 %
N-NH	(ammoniacal nitrogen)	up to 1,30 %
P ₂ O ₅	(phosphorus)	up to 0,70 %
K ₂ O	(potassium)	up to 3,20 %
MgO	(magnesium)	up to 3,80 %
CaO	(calcium)	up to 6,20 %
Na ₂ O	(sodium)	up to 3,50 %
Cl	(chlorides)	up to 0,17 %
S-SO ₃	(sulfur)	up to 0,10 %

MACRONUTRIENTS SLOWLY SOLUBLE

Fe ₂ O ₃	(iron)	up to 9,40 %
SiO ₂	(silicon)	up to 52,00 %

MICRONUTRIENTS

Mn ₂ O ₃	(manganese)	up to 0,19 %
TiO ₂	(titanium)	up to 1,70 %
CuO	(copper)	up to 0,02 %
ZnO	(zinc)	up to 0,01 %

Cd	(cadmium)	<1,0 mg/kg dry matter
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Blueberry and cranberry

FRACTION

- powder 1 - 80 microns
- granulate 2 mm – 6 mm

MACRONUTRIENTS - forms readily absorbed by plants

N-NO ₃	(nitrate nitrogen)	up to 4,00 %
N-NH	(ammoniacal nitrogen)	up to 1,50 %
P ₂ O ₅	(phosphorus)	up to 0,60 %
K ₂ O	(potassium)	up to 2,60 %
MgO	(magnesium)	up to 3,00 %
CaO	(calcium)	up to 5,80 %
Na ₂ O	(sodium)	up to 4,60 %
Cl	(chlorides)	up to 0,17 %
S-SO ₃	(sulfur)	up to 0,10 %

MACRONUTRIENTS SLOWLY SOLUBLE

Fe ₂ O ₃	(iron)	up to 2,30 %
SiO ₂	(silicon)	up to 55,00 %

MICRONUTRIENTS

Mn ₂ O ₃	(manganese)	up to 0,14 %
TiO ₂	(titanium)	up to 1,60 %
CuO	(copper)	up to 0,02 %
ZnO	(zinc)	up to 0,01 %

Cd	(cadmium)	<1,0 mg/kg dry matter
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Fruit trees and bushes

FRACTION

- powder 1 - 80 microns
- granulate 2 mm – 6 mm

MACRONUTRIENTS - forms readily absorbed by plants

N-NO ₃	(nitrate nitrogen)	up to 5,60 %
N-NH	(ammoniacal nitrogen)	up to 1,30%
P ₂ O ₅	(phosphorus)	up to 0,60 %
K ₂ O	(potassium)	up to 2,60 %
MgO	(magnesium)	up to 4,80 %
CaO	(calcium)	up to 6,70 %
Na ₂ O	(sodium)	up to 4,20 %
Cl	(chlorides)	up to 0,17 %
S-SO ₃	(sulfur)	up to 0,10 %

MACRONUTRIENTS SLOWLY SOLUBLE

Fe ₂ O ₃	(iron)	up to 9,10 %
SiO ₂	(silicon)	up to 53,00%

MICRONUTRIENTS

Mn ₂ O ₃	(manganese)	up to 0,18 %
TiO ₂	(titanium)	up to 1,70 %
CuO	(copper)	up to 0,02 %
ZnO	(zinc)	up to 0,01%

Cd	(cadmium)	<1,0 mg/kg dry matter
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Conifers

FRACTION

- powder 1 - 80 microns
- granulate 2 mm – 6 mm

MACRONUTRIENTS - forms readily absorbed by plants

N-NO ₃	(nitrate nitrogen)	up to 4,40 %
N-NH	(ammoniacal nitrogen)	up to 1,00%
P ₂ O ₅	(phosphorus)	up to 0,50 %
K ₂ O	(potassium)	up to 3,10 %
MgO	(magnesium)	up to 2,40 %
CaO	(calcium)	up to 4,30 %
Na ₂ O	(sodium)	up to 3,80 %
Cl	(chlorides)	up to 0,17 %
S-SO ₃	(sulfur)	up to 0,20 %

MACRONUTRIENTS SLOWLY SOLUBLE

Fe ₂ O ₃	(iron)	up to 7,30 %
SiO ₂	(silicon)	up to 59,00%

MICRONUTRIENTS

Mn ₂ O ₃	(manganese)	up to 0,18 %
TiO ₂	(titanium)	up to 1,70 %
CuO	(copper)	up to 0,02 %
ZnO	(zinc)	up to 0,01%

Cd	(cadmium)	<1,0 mg/kg dry matter
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OREPLON Fertilizer for growing vines, flowers and herbs

Form granules 2 - 8 mm

- The presence of titanium and silicon stimulates the root system to take up nutrients
- Increases photosynthetic capacity
- Increases yield by up to 30%
- Slow release fertilizer with prolonged effect
- Makes plants resistant to biotic and abiotic stress, fungal diseases, pest infestation
- Increases color intensity of leaves and flowers
- Improves taste
- Regulates soil pH
- Enhances the aroma of herbs
- Protects plants from frost and overdrying

Composition of minerals easily absorbed by plants

K ₂ O	1,6 – 1,8 %
P ₂ O ₅	1,85 – 1,95%
MgO	4,7 – 4,9%
CaO	11,1 – 11,5%
SO ₃	0,9 – 0,95%
SiO ₂	45,0 – 45,6%
Fe ₂ O ₃	8,1 – 8,4%
Na ₂ O	3,2 – 3,3%
TiO ₂	1,2 – 1,4%
Mn ₂ O ₃	0,11 – 0,12%

Dosage

Application to soil

800 - 900 kg / ha

Cultivation: vines, garden and flowering flowers, herbs - ecological and conventional agriculture.



OREPLON Fertilizer for root crops

Form granules 2 - 8 mm

- The presence of titanium and silicon stimulates the root system to take up nutrients
- Improves tuber and root development
- Increases photosynthetic capacity
- Increases yield by up to 30%
- Slow release fertilizer with prolonged effect
- Makes plants resistant to biotic and abiotic stress, fungal diseases, pest infestation
- Improves taste, increases nutrient content
- Regulates soil pH
- Increases the content of starches, sugars, proteins, fats
- Protects plants from frost and overdrying

Composition of minerals easily absorbed by plants

K_2O	1,8 – 1,9 %
P_2O_5	10 – 11%
MgO	3,4 – 3,8%
CaO	19,5 – 20,5%
SO_3	3,7 – 3,8%
SiO_2	35,7 – 36,0%
Fe_2O_3	4,1 – 4,2%
Na_2O	3,0 – 3,1%
TiO_2	0,5 – 0,7%
Mn_2O_3	0,12 – 0,14%

Dosage

Application to soil

800 - 900 kg / ha

Cultivation: root crops · potatoes, beets, carrots · ecological and conventional farming.



OREPLON Fertilizer for growing vegetables

Form granules 2 - 8 mm

- The presence of titanium and silicone stimulates the root system to take up nutrients
- Increases flowering and fruiting
- Increases yield by up to 30%
- Contains macronutrients and micronutrients necessary for plant nutrition
- Slow release fertilizer with prolonged effect
- Makes plants resistant to biotic and abiotic stress, fungal diseases, pest infestation
- Improves coloration, improves taste
- Increases nutrient content
- Nullifies the negative effects of aluminum, cadmium and iron
- Facilitates photosynthesis processes and nitrogen uptake
- Protects plants from frost and overdrying

Composition of minerals easily absorbed by plants

K_2O	2,1 – 2,5 %
P_2O_5	4,9 – 5,5%
MgO	3,9 – 4,1%
CaO	10,5 – 12%
SO_3	2,1 – 2,5%
SiO_2	43 – 44%
Fe_2O_3	5,8 – 6,0%
Na_2O	3,0 – 3,2%
TiO_2	0,7 – 0,8%
Mn_2O_3	0,16 – 0,17%

Dosage

Application to soil

800 - 900 kg / ha

Cultivation: Vegetables, orchards, flowers, grasses, seed hemp, ecological and conventional farming.



OREPLON Fertilizer with phosphorus, calcium, sulfur, silicon and microelements

Form granules 2 - 8 mm

- The presence of titanium and silicone stimulates the root system to take up nutrients
- Increases flowering
- Increases yield by up to 30%
- Positively influences maturation
- Slow release fertilizer with prolonged effect
- Makes plants resistant to biotic and abiotic stress, fungal diseases, pest infestation
- Increases the content of protein, carbohydrates, fats and minerals in the plant
- Activates growth enzymes, influences plant tillering
- Facilitates photosynthesis processes and nitrogen uptake
- Protects plants from frost and overdrying

Composition of minerals easily absorbed by plants

K ₂ O	1,7 – 1,8 %
P ₂ O ₅	9,8 – 9,9%
MgO	2,1 – 2,3%
CaO	19,0 – 19,1%
SO ₃	3,7 – 3,8%
SiO ₂	33 – 34%
Fe ₂ O ₃	4,8 – 4,9%
Na ₂ O	4,2 – 4,21%
TiO ₂	0,6 – 0,7%
Mn ₂ O ₃	0,12 – 0,14%

Dosage

Application to soil

800 - 900 kg / ha

Cultivation: orchard, vegetable, cereal, oilseed crops - ecological and conventional agriculture.



OREPLON Potassiumsium fertilizer with sulfur, silicon and micronutrients

Form granules 2 - 8 mm

- Contains natural silicon, assimilable by plants
- Plants more easily take up water and transport it to the leaves
- Balanced mineral components fully satisfy the nutrition of plants
- Makes plants resistant to biotic and abiotic stress, fungal diseases, pest infestation
- Has a positive effect on flowering and thus yields
- Corn is less susceptible to fungal diseases and rusts
- Increases the content of starch, protein, fats, sugars in the plant
- Facilitates photosynthesis processes and nitrogen uptake

Composition of minerals easily absorbed by plants

K_2O	20 – 21 %
P_2O_5	0,5 – 1%
MgO	5,0 – 6,0%
CaO	3,5 – 4,5%
SO_3	19 – 19,5%
SiO_2	30 – 31%
Fe_2O_3	3,5 – 4%
Na_2O	2 – 2,5%
TiO_2	0,4 – 0,6%
Mn_2O_3	0,1 – 0,2%

Dosage

Application to soil

400 - 500 kg / ha

Cultivation: corn, rapeseed, potatoes, tomatoes, oilseed crops, vegetables, fruit trees and bushes, berry crops / blueberries / - ecological and conventional farming.



Pest avoid agent

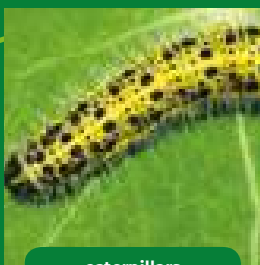


Brought minerals to the right fraction of
1 - 80 microns avoid crop pests in a mechanical way.

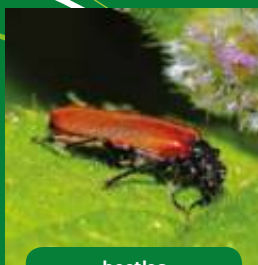
The dust form of OREPLON Volcanic Minerals' ecological minerals composition avoids pests feeding of the plants. When applied topically on the soil, it avoids spider mites, nematodes and wireworms. There is no need for a withdrawal period. Ecological agent. Minerals that fall to the soil act as a fertilizer, enriching the soil. Spray 2 times at intervals of 4 -5 days.



aphids



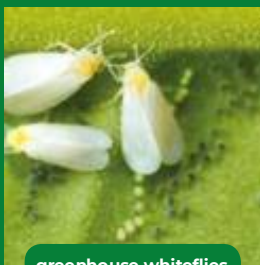
caterpillars



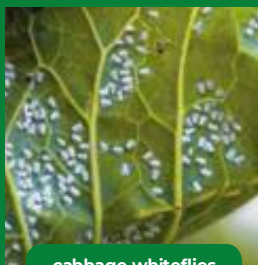
beetles



colorado potato beetles



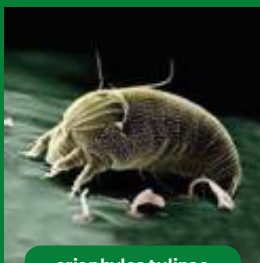
greenhouse whiteflies



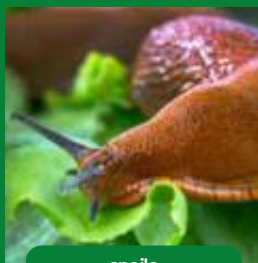
cabbage whiteflies



spider mites



eriophyes tulipae



snails



The result of tests on the content of nutrients in ground tomatoes of the variety Pegaso.

Tomatoes grown on OREPLON VOLCANIC MINERALS.

Pegaso F1	Whole fruit,19	Zinc	1,16 mg/kg
Pegaso F1	Whole fruit,19	Total acidity in terms of oxalic acid	0,18 %
Pegaso F1	Whole fruit,19	Total acidity in terms of malic acid	0,27 %
Pegaso F1	Whole fruit,19	Dry matter	4,55 %
Pegaso F1	Whole fruit,19	Molybdenum	0,1 mg/kg
Pegaso F1	Whole fruit,19	Antioxidant test DPPH	0,43 mg/g
Pegaso F1	Whole fruit,19	Copper	0,54 mg/kg
Pegaso F1	Whole fruit,19	Total acidity in terms of citric acid	0,25 %
Pegaso F1	Whole fruit,19	Calcium	151 mg/kg
Pegaso F1	Whole fruit,19	Nitrogen according to Kjeldahl	0,15 %
Pegaso F1	Whole fruit,19	Sulphur	110 mg/kg
Pegaso F1	Whole fruit,19	Iron	2,87 mg/kg
Pegaso F1	Whole fruit,19	Manganese	2,88 mg/kg
Pegaso F1	Whole fruit,19	Boron	0,73 mg/kg
Pegaso F1	Whole fruit,19	Magnesium	101 mg/kg
Pegaso F1	Whole fruit,19	Phosphorus	138 mg/kg
Pegaso F1	Whole fruit,19	Carbon	2,69 %
Pegaso F1	Whole fruit,19	Total sugars	1,6 mg/kg
Pegaso F1	Whole fruit,19	Lycopene	430,1 mg/kg

Soil test result 3 trials

TEST DATE	pH	salinity g KCl/l	N-NO ₃	N-NH ₄	N	P	K	Mg	Ca*100	K:MG ratio	CL	Cu	Fe	Mn	Zn	B	S
TEST BEFORE PLANTING	7,12	0,11	5	15	20	53	107	80	6,47	1,34	20	1,8	48,7	6,8	4	10	0,5
DURING YIELDING	6,6	0,53	57	16	73	52	214	123	5,82	1,74	97	3	97,6	16,6	6,1	3	40
BEFORE HARVESTING	6,88	0,26	14	10	24	52	149	95	5,87	1,57	51	2,2	66,5	7,2	4,6	0,7	50



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