



ECO AGRO-WIN

TECHNICAL CARD

BIO ORGANIC
COMPLEX FERTILIZER
FOR PLANTS AND SOILS



CEREAL CROPS



VEGETABLE CROPS



SEEDLINGS



FRUIT CROPS



BEAN CROPS



LAWN

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Technical card of the product

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ECO AGRO-WIN

Complex bioorganic fertilizer for plants and soils

Product Description

A concentrate of humic and fulvic acids and a complex of microelements in a citrate chelated form. The Product is created on the basis of an aqueous colloidal solution of leonardite enriched with a unique complex of biogenic mesoand ultra-microelements chelated with citric acid.

Application

It is used for processing seeds, spraying plants during the growing season, as well as for restoring and increasing the fertility and water-holding capacity of sandy and subsandy soils, for melioration, reclamation, feeding, and rehabilitation of all types of soils.

Characteristics/ Advantages

- ✓ Increasing soil fertility by increasing the content of organic matter, activating enzymatic processes and developing agronomically useful microorganisms;
- ✓ Increases the biological activity of the soil, in particular cellulose decomposition;
- ✓ Reduces soil phytotoxicity;
- ✓ Reduces irrigation water consumption by 30-45%; increases the water-holding capacity of the soil;
- ✓ Improves the transportation of nutrients from the soil;
- ✓ Increases the soil's ability to cation exchange (dissolves hard-to-reach compounds);
- ✓ Improvement of agrophysical, agrochemical and biological indicators of soils, including sandy ones;
- ✓ Significantly improves nitrogen-phosphorus nutrition of plants;
- ✓ Helps to increase seed germination energy;
- ✓ Helps to increase plant growth and development;
- ✓ Increases the mass of the root system, its excretory and absorption capacity;
- ✓ Helps to increase and improve the quality of the harvest by 50-150%;
- ✓ Prolonged entry of biogenic micro- and macroelements into plants;
- ✓ Increasing plant resistance to diseases and other stresses;
- ✓ Increases the ability of plants to quickly adapt to climate change (stress resistance);
- ✓ Possible mixing with pesticides without reducing plant growth;
- ✓ The fertilizer is safe for people, animals, insects, including bees.
- ✓ Prevents heavy metals from entering plants.



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Product Technical Description

Package Plastic containers 1l, 5l, 10l, 200l, 1000l.

Color Black, dark grey.

Storage conditions and periods 12 months from the date of manufacture if stored in the original, closed and undamaged packaging in a dry place, protected from direct sunlight at a temperature of +5°C to +35°C.

Density $\approx 950\text{-}1050 \text{ kg/m}^3$

Chemical composition

Chemical element	Quantity, ppm
Nitrogen (N)	100 – 1000
Phosphorus (P)	20 – 80
Potassium (K)	300 – 1000
Boron (B)	300 – 1000
Magnesium (Mg)	300 – 1000
Aluminum (Al)	250 – 1000
Silicon (Si)	100 – 1000
Sulfur (S)	50 – 500
Calcium (Ca)	2000 – 5000
Titanium (Ti)	10 – 50
Vanadium (V)	3 – 6
Manganese (Mn)	70 – 150
Ferrum (Fe)	1000 – 3000
Cobalt (Co)	15 – 20
Nickel (Ni)	5 – 25
Copper (Cu)	60 – 150
Zinc (Zn)	200 – 600
Germanium (Ge)	1 – 5
Selenium (Se)	1 – 3
Molybdenum (Mo)	15 – 20
Iodine (I)	5 – 20
Lanthanum (La)	5 – 20
Lemon acid	1000 – 5000
Total yield of humic acids	20 – 30%
Free humic acids	15 – 25%
Fulvic acids	15 – 25%
pH	5,5 – 7,0

Dry residue 53%



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Usage Information

Consumption / Application

✓ Ground treatment

The first tillage is in autumn, after harvesting. The amount of fertilizer per hectare depends on the amount of plant residues after harvest. For every ton of plant residue, use 1 liter of fertilizer per 1 hectare. The average consumption of working solution is from 100 to 300 l/ha. Fertilizer is applied by sprayer after rain or after watering.

Second tillage - 20 - 25 days before sowing, depending on the condition of the soil, apply from 1 to 5 liters of fertilizer per hectare. The average consumption of working solution is from 100 to 250 l/ha.

✓ Seed treatment

Before sowing, soak the seeds in the solution for 30 - 40 minutes:

- Grain crops (wheat, barley, rye, oats, tertiary) - 1 liter of fertilizer per 1 ton of seeds per 10 liters of water;
- Rapeseed - 2.0 liters of fertilizer per 1 ton of seeds per 12 liters of water;
- Soybean - 2.0 liters of fertilizer per 1 ton of seeds per 12 liters of water;
- Corn - 1.0 liter of fertilizer per 1 ton of seeds per 10 liters of water;
- Sunflower - 1.5 liters of fertilizer per 1 ton of seeds per 15 liters of water;
- Sugar beets - 3.0 liters of fertilizer per 1 ton of seeds per 20 liters of water;
- Vegetables - 10 - 15 milliliters of fertilizer per 1 kg of seeds;
- Hemp - 3.0 liters of fertilizer per 1 ton of seeds per 12 liters of water;

✓ Foliar feeding:

- Grain crops (wheat, barley, rye, oats, tertiary) - First phase (tillering and tucking) - 1 liter of fertilizer per 1 hectare; Second phase (flag leaf phase) - 1 liter per 1 hectare.;
- Rapeseed - First phase (4-6 leaves) - 1 liter per 1 hectare; Second phase (restoration of vegetation) - 1 liter per 1 hectare;
- Soybean - First phase (2 - 3 trigeminal leaves) - 1.2 liters of fertilizer per 1 hectare; Third phase (budding) - 2.0 liters per 1 hectare;
- Corn - First phase (3 - 7 leaves) - 1.0 liter of fertilizer per 1 hectare; Second phase (5 - 7 leaves) - 1.0 liter of fertilizer per 1 hectare;
- Sunflower - First phase (4 - 5 pairs of true leaves) - 1.0 liter of fertilizer per 1 hectare; Second phase (14 days after the first treatment) - 1.0 liters per 1 hectare;
- Sugar beet - First phase (closing plants in rows between rows) - 1.5 liters of fertilizer per 1 hectare; Second phase (14 days after the first treatment) - 1.5 liters of fertilizer per 1 hectare;
- Vegetable crops - First phase (3 - 4 leaves) - 0.5 - 1.2 liters of fertilizer per 1 hectare; Second phase (10 - 14 days after the first treatment) - 0.3 - 1.2 liters per 1 hectare;
- Fruit trees, grapes - First phase (in spring, simultaneously with phytosanitary treatments) - 0.7 - 1.3 liters of fertilizer per 1 hectare; Second phase (at the end of flowering) - 0.7 - 1.3 liters of fertilizer per 1 hectare; Third phase (14 days after pre-treatment) - 0.7 - 1.3 liters of fertilizer per 1 hectare;
- Hemp - First phase (4 - 6 leaves) - 1 liter per 1 hectare; The second phase (14 days after the first treatment) - 1 liter per hectare;
- Potatoes - First phase (2 - 4 leaves) - 1 liter per 1 hectare; The second phase (budding) - 1.5 liters of fertilizer per hectare; The third phase (before flowering) - 2.0 liters of fertilizer per hectare.

✓ Application of fertilizer for lawns:

AGRO-VIN fertilizer is used at a rate of 2.0 l/ha per 150 l of water. Before sowing the grass, distribute the working solution evenly over the area. Prepare the soil surface and sow grass.

Terms of Use / Restrictions

Soil temperature from +5°C to +35°C.

Air temperature from +5°C to +35°C.

Storage conditions Store in a cool, dark place in the original container, at a temperature from +5°C to +35°C.
Shelf life – 1 year.

Information about application

Application method / Equipment Shake before use! Standard technologies are used to apply the mixture to the soil.

Application notes/ Restrictions When exposed to moisture, high temperatures, ultraviolet radiation, color deviations may occur. However, a change in color may lead to a decrease in the technical characteristics or effectiveness of the mixture.

Notes All technical data are presented based on laboratory tests. Actual specifications may vary slightly without affecting quality.

Technical instructions for safety

- ✓ For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the latest version of the technical data sheet containing physical, environmental, toxicological and other safety-related data.
- ✓ Wear protective gloves when handling fertilizers;
- ✓ Do not eat;
- ✓ Keep out of the reach of children;
- ✓ In case of contact with eyes, rinse thoroughly with clean water and consult a doctor.

Legal Notices Information, and in particular recommendations regarding the method of application and end use of ECO AGRO-WIN products, are provided in good faith, based on ECO AGRO-WIN's existing experience and knowledge of the products, subject to proper storage, handling and use of the products. Under normal conditions, in accordance with the recommendations of the ECO AGRO-WIN company. In practice, differences between the materials and the actual conditions of the place in which the product is used may preclude any warranty of merchantability or fitness for a particular use and exclude any liability that may arise in any legal relationship in connection with/ or based on recommendations or other suggestions provided. The user of the product is obliged to test its suitability for the actual purposes and intentions of the consumer. ECO AGRO-WIN reserves the right to change the composition of its products. The proprietary rights of third parties must be respected. All orders are accepted in accordance with the current sales and delivery conditions. Users must always use the most current version of the material data sheet for the relevant material type, copies of which will be provided upon request.

