

### HIGH-EFFICIENT PRODUCTS FOR AGRO-INDUSTRIAL COMPLEX

MICROFERTILIZERS, SOIL RECULTIVANT, PLANT UAN-LCF

synagragroup.com



Today the planet's resources have been significantly depleted and are under constant pressure from climate change and technological progress. Getting a crop becomes a real struggle for the quantity and quality of the products. Both agro-industrial holdings and ordinary farmers need really working ways to increase productivity while protecting limited and not always renewable Earth resources.

The mission of SYNAGRA GROUP is the application of knowledge and research to grow more crops on a limited area in different climatic conditions and depleted soils, including the most extreme climates.

We do not chase the numbers.

Our main task is to obtain high-quality products, preserve and improve the fertility of the soil, with the prolongation of yields for the future.

Our mission is the synergy of science and understanding of the deepest natural processes for a better future of our Partners and the human society. We strive to understand and accept nature, not fighting and destroying, but helping and caring, receiving from it pure, significant and qualitative crops, no matter technical crops or cereals, vegetable, fruit and berry, flower, etc. Using our products, we want to be sure that the land will get nutrition and farmers will get a first-class competitive product as needed.

SYNAGRA GROUP is engaged in the development, production and industrial introduction of a number of unique and highly effective products for agro-industrial complex, including turnkey technological cycles.

The main advantage of SYNAGRA GROUP is flexibility and **customer oriented approach.** Owing to a team of professionals, a solid scientific base and production facilities, the company has the opportunity to create products with consideration of particular characteristics and concerns of a specific customer.

#### MAIN DIRECTIONS OF COMPANY ACTIVITY:

- production of microfertilizers and soil recultivant for the agro-industrial complex;
- technologies and plants for the production of organomineral fertilizers, UAN, LCF;
- production and development of new, revolutionary drugs in the field of pharmaceuticals and medicine.

### DESCRIPTION OF MICROFERTILIZERS «AGRORISE»™

SYNAGRA GROUP offers a product line of microfertilizers under the **brand «AGRORISE».** 

Microfertilizers «AGRORISE»™ - is a multi-purpose complex of biologically active protection of agricultural crops and soil recultivation used in difficult climatic and ecobiological conditions, including for organic farming.

Microfertilizers are a high-quality aqueous concentrate of chelated organometallic compounds based on stabilized humic substances. A solution of biologically active substances was obtained on the basis of deep drawing from the active part of sapropel silt deposits, and / or low peat, using electrohydrodynamic effects.

Fertilizers not only protect plants, but also enriche them with a wide range of nutrients.

The main components are concentrate of humic substances, immunomodulator and chelate complex of nine microelements: Zn, Cu, Mn, B, Mo, Ni, Mg, Co and Fe.

The structure of micro and ultramicroelements may additionally contain stressors and neurotransmitters based on Au, Se, V and other components.

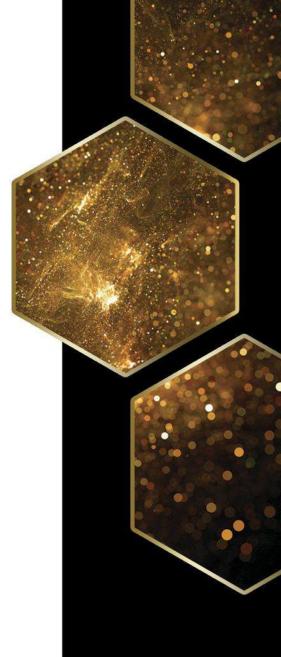
### «AGRORISE» DOES NOT CONTAIN HORMONAL STIMULATORS and substances of animal origin.

Microfertilizers «AGRORISE» $^{\text{m}}$  do not cause oral and inhalation toxicity as well as cumulative effect. There is no irritating and sensitizing action.

Microfertilizers «AGRORISE»™ have undergone extensive field trials in various crops and soils in various countries, including Asia and Africa.

#### TRADE NAMES:

«AGRORISE PRO 3»
«AGRORISE PRO 5»
«AGRORISE PRO 7»
«AGRORISE PRO 5 Climatic Control»
«AGRORISE PRO 7 Climatic Control»
«AGRORISE BIO»



### MICROFERTILIZERS «AGRORISE PRO 3»<sup>™</sup>

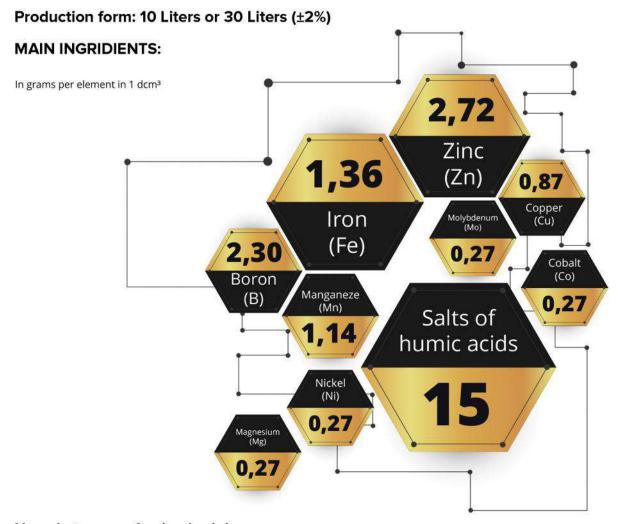
#### ACTION:

Complex is intended for preseeding processing of seeds and planting material, as well as fertilizing during the growing season when growing cereals in open and sheltered soils in order to accelerate the growth and development of plants, increase their resistance to unfavorable conditions of cultivation.



#### **EFFECT OF APPLICATION:**

- increase in yield from 10% (with a full cycle of processing);
- improvement of quality (grade) and properties of the final product (increase in the content of useful substances and longevity);
- restoration of soil biota in conditions of high mineralization;
- the neutralization of the largely toxic and mutagenic effects of herbicides and pesticides.



No substances of animal origin.

### MICROFERTILIZERS «AGRORISE PRO 5»™

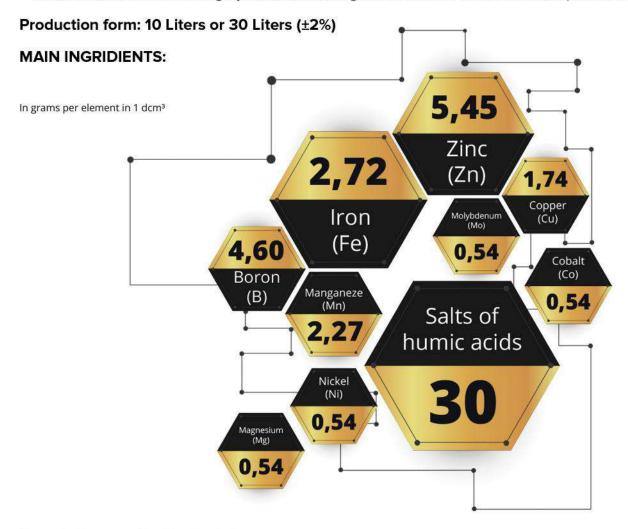
#### **ACTION:**

Complex is intended for preseeding processing of seeds and planting material, as well as fertilizing during the growing season when growing cereals in open and sheltered soils in order to accelerate the growth and development of plants, increase their resistance to unfavorable conditions of cultivation.



#### **EFFECT OF APPLICATION:**

- increase in yield from 15% (with a full cycle of processing);
- improvement of quality (grade) and properties of the final product (increase in the content of useful substances and longevity);
- restoration of soil biota in conditions of high mineralization;
- · the neutralization of the largely toxic and mutagenic effects of herbicides and pesticides.



No substances of animal origin.

### MICROFERTILIZERS «AGRORISE PRO 7»™

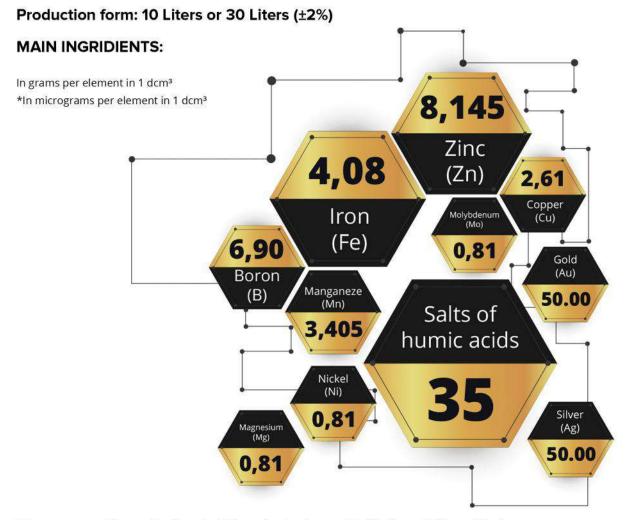
#### ACTION:

intended Complex is for preseeding processing of seeds and planting material, as well as fertilizing during the growing season when growing cereals in open and sheltered soils in order to accelerate the growth and development of plants, increase their resistance to unfavorable conditions cultivation.



#### **EFFECT OF APPLICATION:**

- increase in yield from 20% (with a full cycle of processing);
- improvement of quality (grade) and properties of the final product (increase in the content of useful substances and longevity);
- restoration of soil biota in conditions of high mineralization;
- the neutralization of the largely toxic and mutagenic effects of herbicides and pesticides .



The composition of microfertilizer includes gold (Au) and Silver (Ag). Microfertilizers «AGRORISE PRO 7» TM have pronounced antifungal properties. No substances of animal origin.

### SOIL RECULTIVANT «AGRORISE BIO»™

(biohumus on the basis of sapropel)

AGRORISE BIO™ on the basis of sapropel (biohumus of aquaculture) – a concentrate of natural origin.

**The composition** of the concentrate of the active upper part of the silt, consisting of the organic matter of aquatic organisms (microalgae and zoobenthos) of different stages of decomposition:



- concentrated natural hyamomelan biopolymers of natural origin that have been preserved;
- biomoses natural microelements, biologically active metal-containing substances, a component of lake highly mineralized silt:
- peptide amino acid residues.

Production form: 30 Lliters (±2%)

Does not contain synthetic hormonal agents and additives.

**Main feature** of «AGRORISE BIO» TM is a high content of natural tolins, which is the main component of the food chain of nitrogen-fixing bacteria. Simultaneously, tolins are the effective protectors of ultraviolet radiation. Also, «AGRORISE BIO» TM contains bacterial protoflora with high proteolytic activity («Acidobacteria»), which allows to perform biodegradation of plant residues (including cellulose), microorganisms, and also absorbed hydrocarbons in the contaminated area and receive products of deep decay. In addition, developed protoflora has pronounced antagonistic properties to the pathogenic microorganisms.

#### Action:

- increased resistance of the immune system of soil biota and agricultural crops;
- protection from the negative effects of solar radiation, drought, frost, excess moisture, bacterial infection and mutagens, pests, chemical contamination, radioactive damage and abnormal electromagnetic radiation;
- restoration of bacterial nitrogen fixing soil microflora and activating the process of nitrification of organic matter in the soil;
- restoration of soil biota in conditions of high mineralization;
- neutralization of toxic and mutagenic effect of herbicides and pesticides is neutralized.

Concentrate can be actively used in the process of complex stubble cultivation, recultivation and cleaning of depleted soil.

#### Advantages:

- concentrated protoflora stimulates the development of soil nitrogen-fixing bacteria;
- compatible with any means of plant protection.

#### Effect from application:

- restoration of soil biota in conditions of high mineralization;
- the toxic and mutagenic effect of herbicides and pesticides is neutralized;
- increases the resistance of the immune system of soil biota and agricultural crops.

### COMPOSITION OF MICROFERTILIZERS «AGRORISE»™

#### Liquid soil -

Natural hymatomelanic deprotonated humic biopolymers of the direct action, which have undergone the treatment under supercritical conditions, act as regulators of the mass transfer process in soil systems, enhance the mobilization of nutrients from soil layers, immobilize heavy metals, radioactive elements and other chemical eco-toxicants. The radiation protection, i.e. protection from phyto-toxic effect of herbicides and pesticides in the soil, is provided.

The capillary and field moisture capacity of light soils and the water permeability of heavy soils significantly increase, the structure of the soil and its water stability improve as well as the soil density decreases.

The soil phosphorus acquires mobility.

The composition of all AGRORISE products contains biomoses and tholins.

#### Biomoses -

are natural complexes of microelements and amino acid residues, as well as biologically active metal-containing substances obtained from the lake high-mineralized silt.

#### Tholins -

are a component of the food chain of nitrogen-fixing bacteria. They represent a concentrate of modified microorganisms capable to secrete enzymes that transform carbon into forms available for feeding nitrogen fixers, ammonifiers and nitrifiers.

Consequently, the nitrogen fixation processes in the soil are enhanced, which contributes to the increase in total and protein nitrogen and availability of organic nitrogen for plants as well as increase in the mobility of the soil phosphorus. Simultaneously, the tholins act as the effective protector of ultraviolet radiation.

Also, bacterial protoflora (cellulosolytics) with the high proteolytic activity ("Acidobacteria") is developed in the preparation, which allows making the biodegradation of plant residues as well as absorbed hydrocarbons to products of the deep decomposition on the contaminated territory. In addition, the developed protoflora has the pronounced antagonist properties against pathogenic microorganisms.

Simultaneously with the increase in the number of microorganisms, the enzymatic activity of the soil is also strengthened, which, in its turn, increases the mobility of other nutrients in the soil.

#### Microelements -

Chelation of the wide and high-concentrated complex of microelements possessing the superior bioavailability cannot be achieved without the use of several chelating compounds. The complex of the biologically active protection of the agroenvironment and the soil recultivation contains the expanded, with the maximum possible content, and competently chelated microelement base that is fully prepared and available for feeding the soil microflora. In addition to chelated microelements, one uses salts of natural organic acids and the wide amino acid set increasing the resistance of plants to stresses.

#### Neurotransmitters -

Plants that have a complicated analogue of the nervous system, just like animals, are able to make decisions, store memories and communicate.

Plants react to light, heat, gravity, salt composition of the soil, magnetic field, various pathogens, and they flexibly change their behavior under the influence of the information received.

The maximum rate of the action potential spread in plants is comparable to the same indicators of animals.

External excitations of the different nature generate in plants action potentials, which can differ in amplitude, speed and duration.

Plants have the almost complete analogue of the neuron — the phloem conductive tissue. The same neurotransmitters as in animals work. And there are both chemical and electrical synapses.

From the standpoint of the signal transmission using chemical channels, the components of the preparation, possessing the high polyfunctional physiological activity and acting as a stressor, prevent changes in the fatty acid composition of membranes under the drought conditions. Cell membranes are one of the main places, where the cell damage occurs in case of the water deficiency.

The water deficiency modifies cell membranes affecting their functions and the cell metabolism. In the conditions of the water deficiency, the functional activity of both chloroplasts and mitochondria decreases.

The water deficiency reduces the ratio of unsaturated fatty acids against saturated ones.

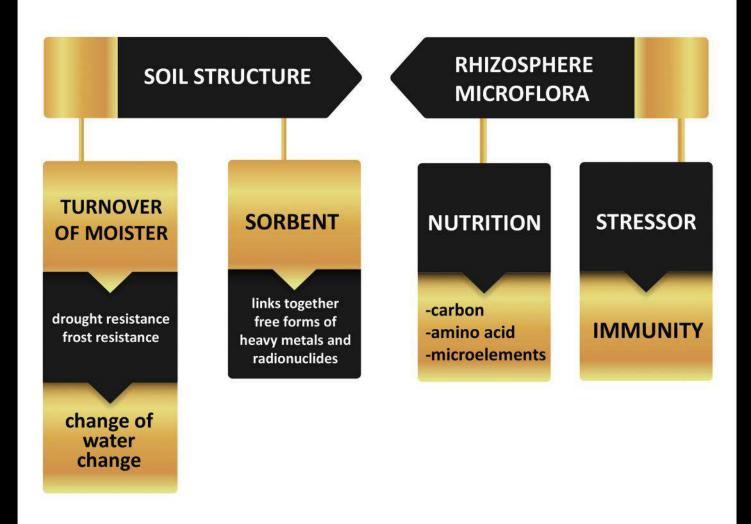
The change in the fatty acid composition reflects upon the energy of mitochondria: rates of the oxidation of NAD-dependent substrates, the speed of electron transport at the respiratory chain terminal area and efficiency of the oxidative phosphorylation fall.

The prevention of changes in the fatty acid composition of mitochondrial membranes being under conditions of the insufficient moistening is performed by modifying the lipid composition of membranes. The transmission of information through signal systems of cells, using receptors on membranes, enhances the action of the signal molecule up to 1000 times, causing the adequate cellular response. Signal systems monitor the dynamics of realizing the cellular response to stress. The dynamics of the cellular response includes the interaction of different signal systems affecting the protein phosphorylation value, aimed at the survival of the organism and /or optimization of its metabolism conditioned by the activation of energy processes, in particular, respiration and photosynthesis.

The complex can be equipped with an additional distributed system of quantum dots, having the bearing informative base available for the interaction with the electrical system of the plant synapses. Based on the complex study and analysis of electrophysiological signals, a system for the instant diagnostics of various diseases and needs of agricultural plants will be created in the future.

### PRINCIPLES OF ACTION OF MICROFERTILIZERS

Microferilizers of «AGRORISE» ™ are aimed to work directly with the bacterial and termal flora of the **rhizosphere microflora and soil structure**. Due to its effect on the bacterial flora, the necessary carbon and amino acid nutrition is provide and necessary microelements are supplied. Our products contain elements that ensure the transport of nutrients and chelated forms of microelements directly to the intracellular environment and soil microflora, vital for the existence of cultivated plants, and the most cultured plant. In addition, fertilizer is a stressor that affects the increased resistance of the immune system of soil biota and agricultural crops. «AGRORISE» ™ helps to protect plants from the effects of solar radiation, drought, frost, excess moisture, i.e. affects the structure of water and moisture turnover. Moreover, the sorbent in the composition of «AGRORISE» ™ links together free forms of heavy metals and radionuclides.



PROTECTIVE EFFECT OF MICROFERTILIZERS «AGRORISE PRO 5» and «AGRORISE PRO 7» is most pronounced under extreme conditions (\*product line Climatic Control):

- · drought (abnormally high temperature);
- · waterlogging;
- · low temperature (freezing);
- · high soil mineralization and concentration of pesticides;
- · plant growing in high-altitude conditions.



### PROTECTIVE EFFECT OF MICROFERTILIZERS «AGRORISE»":



- modified polymerized components of humic substances helps to retain water under the conditions of prolonged drought.
- O2 Climatic Control System with ultraviolet protector controls burn damages and reduces the temperature of the leaf surface under the conditions of high ambient.
- 03 the antioxidant plant protection system provides resistance to quick freeze, as well as severe environmental stresses.

04 antioxidant plant protection system provides resistance in severe environmental conditions, as well as in conditions of chemical pollution and radiation.

ostances that make up microfertilizers, formulate the structure of intracellular water, emitting the greenhouse effect in conditions of growing on the open ground.







### Pre-sowing treatment \*

#### Consumption rate:

It is necessary to dilute 2 liters of concentrate AGRORISE PRO 3 in 10 liters of tank mix and to treat 1 ton of seeds with the prepared working solution by pickling or soaking.



### Foliar spraying

Two-time spraying: on shoots, in the tillering phase.

If necessary and possible: the third treatment - the beginning of the exit into the tube.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 2.5 liters of concentrate AGRORISE PRO 3 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 3 will be entered into the soil together with mineral and organic fertilizers or on their background.

\* Attention: presowing treatment is not used on colored seeds.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

# AGRORISE PRO 3 WHEAT, BARLEY, OATS, MILLET





### Pre-sowing treatment \*

Seed material is processed immediately before planting by surface spraying on seeds with simultaneous gentle stirring.

#### Consumption rate:

It is necessary to dilute 2 liters of concentrate AGRORISE PRO 3 in 10 liters of tank mix.



### Foliar spraying

Two-time spraying: on shoots in the growth phase, in the reproductive - the beginning of the formation of a sweep (formation of a cone).

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 2.5 liters of concentrate AGRORISE PRO 3 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 3 will be entered into the soil together with mineral and organic fertilizers or on their background.

\* Attention: presowing treatment is not used on colored seeds.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

### FLOW CHART **AGRORISE PRO 3** RICE





### Foliar spraying

Two-three-time spraying in the field season: on shoots, and then in 12-15 days.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 2.5 liters of concentrate AGRORISE PRO 3 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 3 will be entered into the soil together with mineral and organic fertilizers or on their background.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

## AGRORISE PRO 3 PASTURE AND FORAGE GRASSES

(CLOVER, SUDAN GRASS, ELEPHANT GRASS, ETC.)





### Pre-sowing treatment \*

#### Consumption rate:

It is necessary to dilute 2 liters of concentrate
AGRORISE PRO 5 in 10 liters of tank mix and to treat 1
ton of seeds with the prepared working solution by
pickling.



### Foliar spraying

Two-time spraying: on shoots, in the tillering phase. If necessary and possible: the third treatment - the beginning of the exit into the tube.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 2,5 liters of concentrate AGRORISE PRO 5 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 5, there is also offered the complex AGRORISE PRO 5 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.

\* Attention: presowing treatment is not used on colored seeds.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

FLOW CHART

AGRORISE PRO 5

AGRORISE PRO 5 CLIMATIC CONTROL

WHEAT, BARLEY, OATS, MILLET





### Pre-sowing treatment \*

Seed material is processed immediately before planting by surface spraying on seeds with simultaneous gentle stirring.

**Consumption rate:** It is necessary to dilute 2,5 liters of concentrate AGRORISE PRO 5 in 10 liters of tank mix.



#### Foliar spraying

Two-time spraying: on shoots in the growth phase, in the reproductive - the beginning of the formation of a sweep (formation of a cone).

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 2,5 liters of concentrate AGRORISE PRO 5 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background.

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- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.

\* Attention: presowing treatment is not used on colored seeds.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

FLOW CHART

AGRORISE PRO 5

AGRORISE PRO 5 CLIMATIC CONTROL

RICE





### Pre-sowing treatment \*

Consumption rate: It is necessary to dilute 3 liters of concentrate AGRORISE PRO 5 in 10 liters of tank mix and to treat 1 ton of seeds with the prepared working solution by pickling or soaking for 6 hours immediately before sowing.



### Foliar spraying

Two-time spraying: on shoots, in a phase of three-five leaves and 9-10 leaves.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 5 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

FLOW CHART

AGRORISE PRO 5

AGRORISE PRO 5 CLIMATIC CONTROL

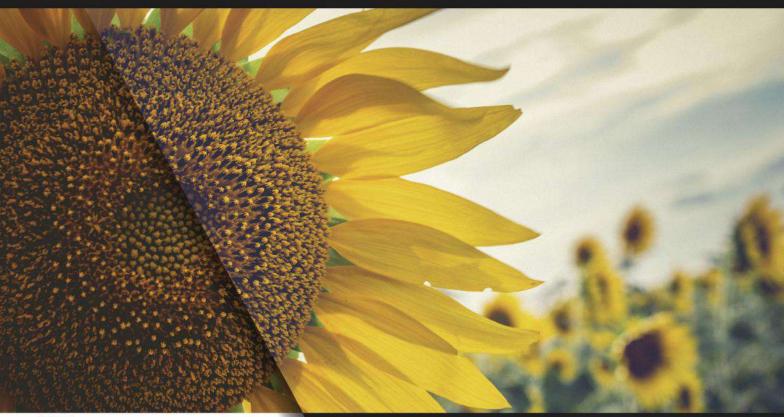
CORN

Together with the AGRORISE PRO 5, there is also offered the complex AGRORISE PRO 5 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.

\* Attention: presowing treatment is not used on colored seeds.

The final application rates can be determined and recommended by our specialists on the condition





### Pre-sowing treatment \*

Consumption rate: It is necessary to dilute 3 liters of concentrate AGRORISE PRO 5 in 10 liters of tank mix and to treat 1 ton of seeds with the prepared working solution by pickling or soaking for 6 hours immediately before sowing.



#### Foliar spraying

Two-time spraying: on shoots, in a phase of three-five leaves and 9-10 leaves.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 5 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

FLOW CHART

AGRORISE PRO 5

AGRORISE PRO 5 CLIMATIC CONTROL

**SUNFLOWER** 

Together with the AGRORISE PRO 5, there is also offered the complex AGRORISE PRO 5 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.

\* Attention: presowing treatment is not used on colored seeds.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.



### Pre-sowing treatment \*

Consumption rate: It is necessary to dilute 2,5 liters of concentrate AGRORISE PRO 5 in 10 liters of tank mix and to treat 1 ton of seeds with the prepared working solution by pickling.



### Foliar spraying

Three-time spraying: on shoots - the appearance of one or two pairs of real leaves, in the phase of the beginning of the formation of the leaf socket and the phase of the beginning of budding.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 5 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 5, there is also offered the complex AGRORISE PRO 5 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

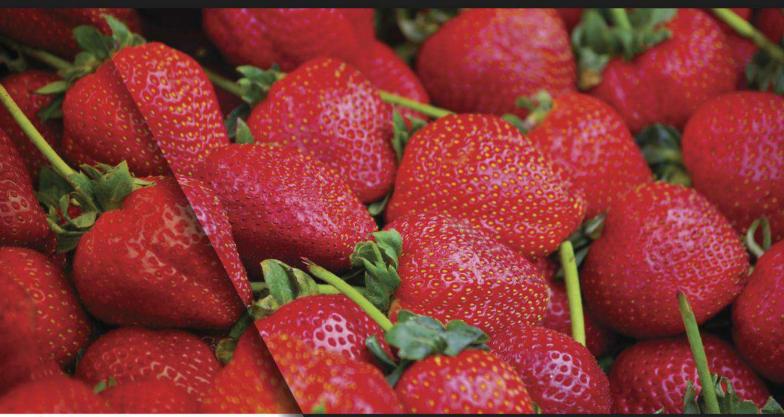
- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.

\* Attention: presowing treatment is not used on colored seeds.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

FLOW CHART
AGRORISE PRO 5
AGRORISE PRO 5 CLIMATIC CONTROL

FLAX, RAPESEED, POPPY





### Seedling processing

Consumption rate: It is necessary to dilute 25 ml of concentrate AGRORISE PRO 5 in 10 liters of water, then soak the root part of seedlings for 20-30 minutes and after rinse with clean water.



#### Foliar spraying

Three-time spraying: in five - six days after planting the seedlings in the soil or the appearance of 4-5 pairs of real leaves, further treatments follow with an interval of 12-15 days.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 5 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 5, there is also offered the complex AGRORISE PRO 5 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

FLOW CHART
AGRORISE PRO 5
AGRORISE PRO 5 CLIMATIC CONTROL
STRAWBERRY,
WILD STRAWBERRY,
WATERMELON





### Preplanting treatment of cassava

Consumption rate: It is necessary to dilute 40 ml of concentrate AGRORISE PRO 5 in 10 liters of water. Working solution flow rate - 50 liters per 1 ton of tubers. Then soak the root part of seedlings in working solution for 3 hours and after rinse with clean water.

### Preplanting treatment of potato tubers

Consumption rate: It is necessary to dilute 40 ml of concentrate AGRORISE PRO 5 in 10 liters of water. Working solution flow rate - 50 liters per 1 ton of tubers. It is possible to carry out processing of potatoes in storing bunkers, a height of no more than 0,5 meters.



### Foliar spraying of potatoes and cassava

Two-time spraying: during the emergence phase, the formation

of 5-7 true leaves and in the phase of closing the leaves, with an interval of 12-15 days.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 5 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 5, there is also offered the complex AGRORISE PRO 5 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

FLOW CHART
AGRORISE PRO 5
AGRORISE PRO 5 CLIMATIC CONTROL
ROOTS
(POTATOES, CASSAVA,
BEETS, CARROTS)





### Seedling processing

**Consumption rate:** It is necessary to dilute 25 ml of concentrate AGRORISE PRO 5 in 10 liters of water, then soak the root part of seedlings for 20-30 minutes and after rinse with clean water.



#### Foliar spraying

Three-time spraying: in five - six days after planting the seedlings in the soil or the appearance of 4-5 pairs of real leaves, further treatments follow with an interval of 12-15 days.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 5 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

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- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

FLOW CHART
AGRORISE PRO 5
AGRORISE PRO 5 CLIMATIC CONTROL
VEGETABLES
(TOMATOES, CUCUMBERS,
SALAD, ONION, CABBAGE)





### Foliar spraying

Two-three-time spraying: in the emergence phase, the appearance of 2-4 pairs of real leaves, in the phase of formation of a leaf rosette - branching, in the budding-flowering phase.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 5 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

FLOW CHART
AGRORISE PRO 5
AGRORISE PRO 5 CLIMATIC CONTROL
SOYBEANS, PEAS

Together with the AGRORISE PRO 5, there is also offered the complex AGRORISE PRO 5 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);
- waterlogging;
- low temperature (freezing);
- high soil mineralization and concentration of pesticides;
- plant growing in high-altitude conditions.





### Foliar spraying

Two-three-time spraying: in the emergence phase, the appearance of 2-4 pairs of real leaves, in the phase of formation of a leaf rosette - branching, in the budding-flowering phase.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 5 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

FLOW CHART
AGRORISE PRO 5
AGRORISE PRO 5 CLIMATIC CONTROL

COTTON

Together with the AGRORISE PRO 5, there is also offered the complex AGRORISE PRO 5 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);
- waterlogging;
- low temperature (freezing);
- high soil mineralization and concentration of pesticides;
- plant growing in high-altitude conditions.





### Foliar spraying

Two-time spraying: in the sprouting phase, the appearance of 2-4 pairs of real leaves and in the phase of appearance of 8-10 leaves.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 5 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

FLOW CHART

AGRORISE PRO 5

AGRORISE PRO 5 CLIMATIC CONTROL

SUGARCANE, SORGHUM

Together with the AGRORISE PRO 5, there is also offered the complex AGRORISE PRO 5 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);
- waterlogging;
- low temperature (freezing);
- high soil mineralization and concentration of pesticides;
- plant growing in high-altitude conditions.





### **Preplanting treatment**

Soak the roots of the seedlings in the working solution before planting for 3-6 hours. Preparation of the working solution: 30 ml of concentrate AGRORISE PRO 5 per 10 liters of water (1: 500).



### Root spraying

4-fold treatment for the season: one month before flowering, 5-7 days after flowering, at the beginning of the physiological fall of the ovaries, in the period of the flower buds laying.

The rate of application of the working solution for use in irrigation:

Transplanted plants - 20 ml of concentrate AGRORISE PRO 5 per 10 liters of water; young tree - 30 ml of concentrate AGRORISE PRO 5 per 20 liters of water; adult tree - 40 ml of concentrate AGRORISE PRO 5 per 30 liters of water.

Watering is carried out evenly, within a radius of 1 m from the tree trunk. A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background. The complex can be actively used in the process of complex stubble cultivation,

reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 5, there is also offered the complex AGRORISE PRO 5 Climatic Control with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

### FLOW CHART **AGRORISE PRO 5 AGRORISE PRO 5 CLIMATIC CONTROL** COCOA





### Preplanting treatment

Soak the roots of the seedlings in the working solution before planting for 3-6 hours. Preparation of the working solution: 30 ml of concentrate AGRORISE PRO 5 per 10 liters of water (1: 500).



### **Root spraying**

4-fold treatment for the season: one month before flowering, 5-7 days after flowering, at the beginning of the physiological fall of the ovaries, in the period of the flower buds laying.

The rate of application of the working solution for use in irrigation:

Transplanted plants - 20 ml of concentrate AGRORISE PRO 5 per 10 liters of water; young tree - 30 ml of concentrate AGRORISE PRO 5 per 20 liters of water; adult tree - 40 ml of concentrate AGRORISE PRO 5 per 30 liters of water.

Watering is carried out evenly, within a radius of 1 m from the tree trunk. A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background. The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 5, there is also offered the complex AGRORISE PRO 5 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

FLOW CHART

AGRORISE PRO 5

AGRORISE PRO 5 CLIMATIC CONTROL

COFFEE





### **Preplanting treatment**

Soak the roots of the seedlings in the working solution before planting for 3-6 hours. Preparation of the working solution: 30 ml of concentrate AGRORISE PRO 5 per 10 liters of water (1: 500).



#### **Root spraying**

4-fold treatment for the season: one month before flowering, 5-7 days after flowering, at the beginning of the physiological fall of the ovaries, in the period of the flower buds laying.

The rate of application of the working solution for use in irrigation:

Transplanted plants - 20 ml of concentrate AGRORISE PRO 5 per 10 liters of water; young tree - 30 ml of concentrate AGRORISE PRO 5 per 20 liters of water; adult tree - 40 ml of concentrate AGRORISE PRO 5 per 30 liters of water.

Watering is carried out evenly, within a radius of 1 m from the tree trunk.

For trees of rubber plants - external processing of the trunk is required immediately after the resin obtaining is completed. To treat the surface of the trunk at the place of obtaining resin with working solution (preparation of working solution - 40 ml of concentrate AGROR-ISE PRO 5 per 10 liters of water).

A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 5, there is also offered the complex AGRORISE PRO 5 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions: - drought (abnormally high temperature); - waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

FLOW CHART

AGRORISE PRO 5

AGRORISE PRO 5 CLIMATIC CONTROL

**RUBBER PLANTS** 





### **Preplanting treatment**

Soak the roots of the seedlings in the working solution before planting for 3-6 hours. Preparation of the working solution: 30 ml of concentrate AGRORISE PRO 5 per 10 liters of water (1: 500).



### **Root spraying**

4-fold treatment for the season: one month before flowering, 5-7 days after flowering, at the beginning of the physiological fall of the ovaries, in the period of the flower buds laying.

The rate of application of the working solution for use in irrigation:

Transplanted plants - 20 ml of concentrate AGRORISE PRO 5 per 10 liters of water; young tree - 30 ml of concentrate AGRORISE PRO 5 per 20 liters of water; adult tree - 40 ml of concentrate AGRORISE PRO 5 per 30 liters of water.

Watering is carried out evenly, within a radius of 1 m from the tree trunk. A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background. The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 5, there is also offered the complex AGRORISE PRO 5 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

## FLOW CHART AGRORISE PRO 5 AGRORISE PRO 5 CLIMATIC CONTROL OLIVES, NUTS, OIL PALM, FRUIT TREES





### **Preplanting treatment**

Soak the roots of the seedlings and propagula in the working solution before planting for 2-3 hours, then rinse by clean water.

Preparation of the working solution: 25 ml of concentrate AGRORISE PRO 5 per 10 liters of water



#### Root spraying.

Three-fold treatment for the season: five to six days after planting the seedlings in the soil, in the phase of 4-5 true leaves and in the budding-flowering phase, with an interval of 12-15 days.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 15 liters of concentrate AGRORISE PRO 5 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 5 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 5, there is also offered the complex AGRORISE PRO 5 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

# FLOW CHART AGRORISE PRO 5 AGRORISE PRO 5 CLIMATIC CONTROL FLOWERS, BUSH FRUIT





### Pre-sowing treatment \*

Consumption rate: It is necessary to dilute 3 liters of concentrate AGRORISE PRO 7 in 10 liters of tank mix and to treat 1 ton of seeds with the prepared working solution by pickling or soaking for 6 hours immediately before sowing.



#### Foliar spraying

Two-time spraying: on shoots, in a phase of three-five leaves and 9-10 leaves.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 7 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

FLOW CHART
AGRORISE PRO 7
AGRORISE PRO 7 CLIMATIC CONTROL

CORN

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions. In addition, the complex "AGRORISE PRO 7" **Climatic Control** has pronounced antifungal properties.

\* Attention: presowing treatment is not used on colored seeds.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.



### Pre-sowing treatment \*

**Consumption rate:** It is necessary to dilute 2,5 liters of concentrate AGRORISE PRO 7 in 10 liters of tank mix and to treat 1 ton of seeds with the prepared working solution by pickling.



### Foliar spraying

Three-time spraying: on shoots - the appearance of one or two pairs of real leaves, in the phase of the beginning of the formation of the leaf socket and the phase of the beginning of budding.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 7 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7

Climatic Control with the same flow chart, but the protective effect of which is

manifested with the greatest force under extreme conditions:
- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions. In addition, the complex "AGRORISE PRO 7" **Climatic Control** has pronounced antifungal properties.

\* Attention: presowing treatment is not used on colored seeds.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

FLOW CHART

AGRORISE PRO 7

AGRORISE PRO 7 CLIMATIC CONTROL

FLAX, RAPESEED, POPPY





### Seedling processing

Consumption rate: It is necessary to dilute 25 ml of concentrate AGRORISE PRO 7 in 10 liters of water, then soak the root part of seedlings for 20-30 minutes and after rinse with clean water.



#### **Foliar spraying**

Three-time spraying: in five - six days after planting the seedlings in the soil or the appearance of 4-5 pairs of real leaves, further treatments follow with an interval of 12-15 days.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 7 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 Climatic Control with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions. In addition, the complex "AGRORISE PRO 7" **Climatic Control** has pronounced antifungal properties.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

# FLOW CHART AGRORISE PRO 7 AGRORISE PRO 7 CLIMATIC CONTROL STRAWBERRY, WILD STRAWBERRY, WATERMELON





### Seedling processing

**Consumption rate:** It is necessary to dilute 25 ml of concentrate AGRORISE PRO 7 in 10 liters of water, then soak the root part of seedlings for 20-30 minutes and after rinse with clean water.



### Foliar spraying

Three-time spraying: in five - six days after planting the seedlings in the soil or the appearance of 4-5 pairs of real leaves, further treatments follow with an interval of 12-15 days.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 7 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 Climatic Control with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions. In addition, the complex "AGRORISE PRO 7" **Climatic Control** has pronounced antifungal properties.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

FLOW CHART
AGRORISE PRO 7
AGRORISE PRO 7 CLIMATIC CONTROL
VEGETABLES
(TOMATOES, CUCUMBERS,
SALAD, ONION, CABBAGE)





#### Preplanting treatment of cassava

Consumption rate: It is necessary to dilute 40 ml of concentrate AGRORISE PRO 7 in 10 liters of water. Working solution flow rate - 50 liters per 1 ton of tubers. Then soak the root part of seedlings in working solution for 3 hours and after rinse with clean water.

#### Preplanting treatment of potato tubers

Consumption rate: It is necessary to dilute 40 ml of concentrate AGRORISE PRO 7 in 10 liters of water. Working solution flow rate - 50 liters per 1 ton of tubers. It is possible to carry out processing of potatoes in storing bunkers, a height of no more than 0,5 meters.



#### Foliar spraying of potatoes and cassava

Two-time spraying: during the emergence phase, the formation

of 5-7 true leaves and in the phase of closing the leaves, with an interval of 12-15 days.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 7 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 Climatic Control with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions. In addition, the complex "AGRORISE PRO 7" Climatic Control has pronounced antifungal properties.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

FLOW CHART

AGRORISE PRO 7

AGRORISE PRO 7 CLIMATIC CONTROL

ROOTS (POTATOES, CASSAVA,

BEETS, CARROTS)





#### Foliar spraying

Two-three-time spraying: in the emergence phase, the appearance of 2-4 pairs of real leaves, in the phase of formation of a leaf rosette - branching, in the budding-flowering phase.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 7 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

FLOW CHART
AGRORISE PRO 7
AGRORISE PRO 7 CLIMATIC CONTROL
SOYBEANS, PEAS

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);
- waterlogging;
- low temperature (freezing);
- high soil mineralization and concentration of pesticides;
- plant growing in high-altitude conditions.

In addition, the complex "AGRORISE PRO 7" **Climatic Control** has pronounced antifungal properties.





#### Foliar spraying

Two-three-time spraying: in the emergence phase, the appearance of 2-4 pairs of real leaves, in the phase of formation of a leaf rosette - branching, in the budding-flowering phase.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 7 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

FLOW CHART

AGRORISE PRO 7

AGRORISE PRO 7 CLIMATIC CONTROL

COTTON

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);
- waterlogging;
- low temperature (freezing);
- high soil mineralization and concentration of pesticides;
- plant growing in high-altitude conditions.

In addition, the complex "AGRORISE PRO 7" **Climatic Control** has pronounced antifungal properties.





#### Foliar spraying

Two-time spraying: in the sprouting phase, the appearance of 2-4 pairs of real leaves and in the phase of appearance of 8-10 leaves.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 7 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

## FLOW CHART AGRORISE PRO 7 AGRORISE PRO 7 CLIMATIC CONTROL SILGARCANIE

SUGARCANE, SORGHUM

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);
- waterlogging;
- low temperature (freezing);
- high soil mineralization and concentration of pesticides;
- plant growing in high-altitude conditions.

In addition, the complex "AGRORISE PRO 7" **Climatic Control** has pronounced antifungal properties.





#### Preplanting treatment

Soak the roots of the seedlings in the working solution before planting for 3-6 hours. Preparation of the working solution: 30 ml of concentrate AGRORISE PRO 7 per 10 liters of water (1: 500).



#### **Root spraying**

4-fold treatment for the season: one month before flowering, 5-7 days after flowering, at the beginning of the physiological fall of the ovaries, in the period of the flower buds laying.

The rate of application of the working solution for use in irrigation:

Transplanted plants - 20 ml of concentrate AGRORISE PRO 7 per 10 liters of water; young tree - 30 ml of concentrate AGRORISE PRO 7 per 20 liters of water; adult tree - 40 ml of concentrate AGRORISE PRO 7 per 30 liters of water.

Watering is carried out evenly, within a radius of 1 m from the tree trunk.

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions. In addition, the complex "AGRORISE PRO 7" **Climatic Control** has pronounced antifungal properties.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

FLOW CHART

AGRORISE PRO 7

AGRORISE PRO 7 CLIMATIC CONTROL

COCOA



#### **Preplanting treatment**

Soak the roots of the seedlings in the working solution before planting for 3-6 hours. Preparation of the working solution: 30 ml of concentrate AGRORISE PRO 7 per 10 liters of water (1: 500).



#### **Root spraying**

4-fold treatment for the season: one month before flowering, 5-7 days after flowering, at the beginning of the physiological fall of the ovaries, in the period of the flower buds laying.

The rate of application of the working solution for use in irrigation:

Transplanted plants - 20 ml of concentrate AGRORISE PRO 7 per 10 liters of water; young tree - 30 ml of concentrate AGRORISE PRO 7 per 20 liters of water; adult tree - 40 ml of concentrate AGRORISE PRO 7 per 30 liters of water.

Watering is carried out evenly, within a radius of 1 m from the tree trunk.

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions. In addition, the complex "AGRORISE PRO 7" **Climatic Control** has pronounced antifungal properties.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

FLOW CHART
AGRORISE PRO 7
AGRORISE PRO 7 CLIMATIC CONTROL
COFFEE





#### **Root spraying**

Four-fold treatment for the season: from the beginning of the season with an interval of 12-15 days. The rate of application of the working solution for use in irrigation:

Transplanted plants - 5 ml of concentrate AGRORISE PRO 7 per 5 liters of water;

Young bushes - 10 ml of concentrate AGRORISE PRO 7 per 10 liters of water;

Adult bushes – 15-20 ml of concentrate AGRORISE PRO 7 per 20 liters of water.

Watering is carried out evenly, within a radius of 1 m from the tree trunk.

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

FLOW CHART
AGRORISE PRO 7
AGRORISE PRO 7 CLIMATIC CONTROL

TEA

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);
- waterlogging;
- low temperature (freezing);
- high soil mineralization and concentration of pesticides;
- plant growing in high-altitude conditions.

In addition, the complex "AGRORISE PRO 7" **Climatic Control** has pronounced antifungal properties.





#### **Root spraying**

Three-four-fold treatment for the season: in the phase of the appearance of real leaves, in the budding-flowering phase, with an interval of 12-15 days after flowering, during the filling phase of berries.

The rate of application of the working solution for use in irrigation:

Transplanted plants - 10 ml of concentrate AGRORISE PRO 7 per 5 liters of water,

Adult bushes – 15-20 ml of concentrate AGRORISE PRO 7 per 20 liters of water.

Watering is carried out evenly, within a radius of 1 m from the tree trunk.

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

FLOW CHART
AGRORISE PRO 7
AGRORISE PRO 7 CLIMATIC CONTROL

### PINEAPPLE

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);
- waterlogging;
- low temperature (freezing);
- high soil mineralization and concentration of pesticides;
- plant growing in high-altitude conditions.

In addition, the complex "AGRORISE PRO 7" **Climatic Control** has pronounced antifungal properties.





#### **Root spraying**

In the phase of emergence, in the phase of formation of a leaf outlet - branching, in the budding-flowering phase.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 4 liters of concentrate AGRORISE PRO 7 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

# FLOW CHART AGRORISE PRO 7 AGRORISE PRO 7 CLIMATIC CONTROL SAFFRON, LAVENDER, POPPY, CANNABIS

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);
- waterlogging;
- low temperature (freezing);
- high soil mineralization and concentration of pesticides;
- plant growing in high-altitude conditions.

In addition, the complex "AGRORISE PRO 7" **Climatic Control** has pronounced antifungal properties.





#### Preplanting treatment of transplanted plants

Soak the roots of the seedlings and propagula in the working solution before planting for 2-3 hours, then rinse by clean water. Preparation of the working solution: 25 ml of concentrate AGRORISE PRO 7 per 10 liters of water.



#### **Root spraying**

Three-four-fold treatment for the season: in the phase of the appearance of real leaves, in the budding-flowering phase, with an interval of 12-15 days after flowering, during the filling phase of berries. The rate of application of the working solution for use in irrigation:

Transplanted plants - 10 ml of concentrate AGRORISE PRO 7 per 5 liters of water: Adult bushes - 15-20 ml of concentrate AGRORISE PRO 7 per 20 liters of water.

Watering is carried out evenly, within a radius of 1 m from the tree trunk.

manifested with the greatest force under extreme conditions:

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background. The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 Climatic Control with the same flow chart, but the protective effect of which is

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions. In addition, the complex "AGRORISE PRO 7" Climatic Control has pronounced antifungal

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

#### FLOW CHART **AGRORISE PRO 7** AGRORISE PRO 7 CLIMATIC CONTROL GRAPE





#### **Preplanting treatment**

Soak the roots of the seedlings in the working solution before planting for 3-6 hours. Preparation of the working solution: 30 ml of concentrate AGRORISE PRO 7 per 10 liters of water (1: 500).



#### **Root spraying**

4-fold treatment for the season: one month before flowering, 5-7 days after flowering, at the beginning of the physiological fall of the ovaries, in the period of the flower buds laying.

The rate of application of the working solution for use in irrigation:

Transplanted plants - 20 ml of concentrate AGRORISE PRO 7 per 10 liters of water; young tree - 30 ml of concentrate AGRORISE PRO 7 per 20 liters of water; adult tree - 40 ml of concentrate AGRORISE PRO 7 per 30 liters of water.

Watering is carried out evenly, within a radius of 1 m from the tree trunk.

For trees of rubber plants - external processing of the trunk is required immediately after the resin obtaining is completed. To treat the surface of the trunk at the place of obtaining resin with working solution (preparation of working solution - 40 ml of concentrate AGRORISE PRO 7 per 10 liters of water).

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions: - drought (abnormally high temperature); - waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.

In addition, the complex "AGRORISE PRO 7" Climatic Control has pronounced antifungal properties.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

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FLOW CHART

AGRORISE PRO 7

AGRORISE PRO 7 CLIMATIC CONTROL

**RUBBER PLANTS** 





#### **Preplanting treatment**

Soak the roots of the seedlings in the working solution before planting for 3-6 hours. Preparation of the working solution: 30 ml of concentrate AGRORISE PRO 7 per 10 liters of water (1: 500).



#### **Root spraying**

4-fold treatment for the season: one month before flowering, 5-7 days after flowering, at the beginning of the physiological fall of the ovaries, in the period of the flower buds laying.

The rate of application of the working solution for use in irrigation:

Transplanted plants - 20 ml of concentrate AGRORISE PRO 7 per 10 liters of water; young tree - 30 ml of concentrate AGRORISE PRO 7 per 20 liters of water; adult tree - 40 ml of concentrate AGRORISE PRO 7 per 30 liters of water.

Watering is carried out evenly, within a radius of 1 m from the tree trunk. A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background. The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

- drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions. In addition, the complex "AGRORISE PRO 7" **Climatic Control** has pronounced antifungal properties.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

FLOW CHART
AGRORISE PRO 7
AGRORISE PRO 7 CLIMATIC CONTROL
OLIVES, NUTS,
OIL PALM, FRUIT TREES





#### **Preplanting treatment**

Soak the roots of the seedlings and propagula in the working solution before planting for 2-3 hours, then rinse by clean water.

Preparation of the working solution: 25 ml of concentrate AGRORISE PRO 7 per 10 liters of water



#### Root spraying.

Three-fold treatment for the season: five to six days after planting the seedlings in the soil, in the phase of 4-5 true leaves and in the budding-flowering phase, with an interval of 12-15 days.

The rate of application of the working solution for use in sprayers (large drop) is 250-350 liters per 1 hectare: 15 liters of concentrate AGRORISE PRO 7 per 1 hectare for one treatment.

A greater effect will be obtained if AGRORISE PRO 7 will be entered into the soil together with mineral and organic fertilizers or on their background.

The complex can be actively used in the process of complex stubble cultivation, reclamation and cleaning of depleted soil.

Together with the AGRORISE PRO 7, there is also offered the complex AGRORISE PRO 7 **Climatic Control** with the same flow chart, but the protective effect of which is manifested with the greatest force under extreme conditions:

 drought (abnormally high temperature);- waterlogging;- low temperature (freezing);- high soil mineralization and concentration of pesticides;- plant growing in high-altitude conditions.
 In addition, the complex "AGRORISE PRO 7" Climatic Control has pronounced antifungal properties.

The final application rates can be determined and recommended by our specialists on the condition and composition of the cultural soil layer in each specific case.

# FLOW CHART AGRORISE PRO 7 AGRORISE PRO 7 CLIMATIC CONTROL FLOWERS, BUSH FRUIT

#### **CONTROL-EXPERIENCE**

Zucchini without treatment

Zucchini with treatment by AGRORISE



Final result



## PLANT OF CARBOMIDE AMMONIUM MIXTURE AND LIQUID COMPLEX FERTILIZERS

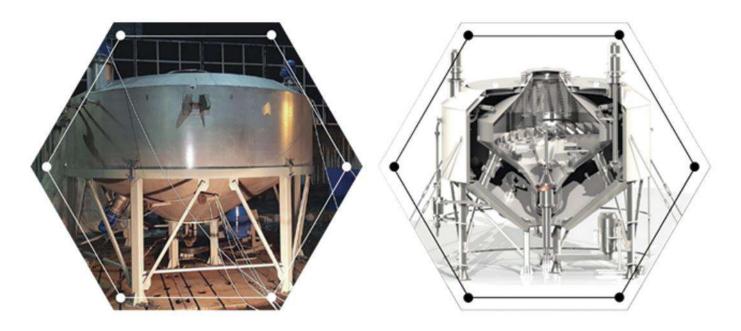
SYNAGRA GROUP is engaged in installation and adjustment supervision of effective advanced plant for the production of liquid nitrogen organic-mineral fertilizer on the territory of the customer's production facilities. Production can be based on:

- · carbamide and ammonium nitrate and other nitrogen-containing substances,
- · organomineral biopolymer compositions (nutrient medium of soil microflora),
- complexing agents,
- immunomodulators based on organometallic compounds,
- · plant protection products against drought and salinity,
- any set of chelated micro-elements (including citrate forms) and growth stimulators (brassinosteroids and gibberlins), as well as structured deionized water in order to obtain the effect of superfluidity.

Processing unit is suitable for the production of liquid chloride-free complex microfertilizers) from mineral concentrates: phosphoric acid, potassium hydroxide, urea, ammonium sulfate.

Carbamide-ammonium solutions and liquid complex fertilizers produced on equipment of SYNAGRA GROUP can be used in drip and sprinkler irrigation systems, as well as standard methods of application through sprayers, including on the frozen thawed soil with temperature up to -17 deg. Celsius.

#### PRODUCTION MODULE CONSISTS OF:



- sound-chemical reactors with boiling bed, equipped with high-speed turbo mixing devices of the vortex type;
- flowing hydropercussion devices;
- ultrasound generators with polarizing elements and magnetic attachments;
- electro-reactive flowing heaters of new generation for large-scale production (from 1000 tons per day), or energy-efficient systems on any fuel suitable for the customer during the production of small volumes (up to 500 tons per day);
- · water structured on the effect of superfluidity.

If necessary, the production module is equipped with an automated system for loading raw materials and integrated storage tanks for 100 tons or 500 tons. Also it is possible to arrange a process room, taking into account resources and needs of the customer.

## MIXING STATION OF FINISHED FERTILIZERS



## **EFFECT OF IMPLEMENTATION OF PLANT AND USE OF PRODUCED FERTILIZER:**

- Reducing the need for the use of standard free-running mineral fertilizers by 2 times, standard liquid fertilizers are reduced by 20-30% due to the effectiveness of new product and, therefore, an increase in content of organic nitrogen by 3-4 times;
- no loss of nitrogen and saving full nitrogen content during transportation to the place of use (in contrast to "home-made" carbamide-ammonium solutions). Moreover, there is an increase of nitrogen up to 10% when using nitrogen-fixing substances;
- the superfluidity of the finished product in contrast to liquid carbamide-ammonium solutions made with the addition of humic substances;
- · absence of oxides of nitrogen;
- start of reclamation and cleaning of depleted soil, creation of agro-grounds on sand formations in arid zones;
- reducing the cost of produced liquid fertilizers by 15-20%, taking into account cutting the transportation costs (there is no need to transport water from afar);
- increase in average yields in any soils and agricultural crops by 20-25%;
- additional concentrates necessary for production (supplied by SYNAGRA GROUP) are within 3-5%, all the rest is produced at the place of application.

Costs for starting and organization of production are compensated during one field season due to the use of an honest product, and not solutions using cheap substitutes for nitrogen mineral complexes with similar physicochemical characteristics, so-called "empty" carbamide-ammonium solutions.

\* Example: one installation requires 10-15 people staff (two-shift production).

Technological cycles are know-how.

Installation supervision and staff training are performed during the equipment assembly. Fertilizer formulation is composed according to the customer requirements.





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#### **SYNAGRA GROUP**

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