



Arman Sabz Adineh Co.

The Secret of Prolific Farms

Fertilizer Catalog

Adineh Group, the leader in the production of novel and specific fertilizers

Since its establishment in 2008, Adineh Group has been trying to identify the needs and weaknesses of the country's agricultural sector and play a significant role in solving them. Initially, this company has played an effective role by providing the best agricultural inputs from the best suppliers all around the world. Understanding the country's economic conditions, trying and relying on domestic knowledge and capabilities to serve the agricultural industry of the country, the company made a significant investment in the agriculture-related fields by building modern factories in different sectors including fertilizers, pesticides, seeds, and agricultural implements. As a result, it became one of the most equipped production factories in the Middle East.

Key Goals & Principles in Adineh Group

• Quality •

Quality and innovation are the main pillars of agricultural fertilizer and pesticide production by Arman Sabz Adineh Company. One of our most important goals has always been to improve the quality of goods supplied in the field of agriculture. Supplying high-quality raw materials from advanced countries, creating quality control departments with the most equipped laboratories, presenting new world-leading formulations to provide effective solutions to increase the quality and performance of the products all have finally led to customers' satisfaction.

• Technical and specialized consultations •

We have tried to localize modern knowledge by forming a research and development committee with the help of our experts. Innovation and utilizing the world's best technologies to produce quality products are the main and most important aims of the company.

• Ecofriendly Production •

Preserving the environment and preventing pollutants from entering the soil and water is considered a basic principle for us, to which we have always been trying to achieve.



Among the duties of the quality control department is the continuous monitoring and review of raw materials and final products to ensure the absence of any contaminants such as perchlorates, heavy elements, microbial contamination, etc.

• *Customer Satisfaction* •

All our efforts have been to achieve the values and goals of farmers and consumers. To this end, receiving criticisms, comments, complaints, and suggestions is the main task of our company. We believe that customers are our business partners and maintaining their dignity is of special importance to us. We consider ourselves responsible for all the dear farmers.

• *Train, Promote & Support* •

Our technical team, relying on its knowledge and expertise, is trying to share and update its knowledge and information by holding conferences, educational and promotional workshops in all parts of the country. Support and after-sale services of the products produced and distributed in all stages are one of the main duties of this department, and by continuous contact with consumers, it ensures the correct consumption and performance of the products.

• *Product Diversity* •

By completing and updating our product portfolio, including powder fertilizers, macro and micronutrients, liquid, granular, organic fertilizers, herbicides, insecticides, acaricides, fungicides, metaldehyde and rodenticides, and foliar spraying oils; we have created a variety of products for every purpose and product.

• *Cost-effectiveness* •

Taking into consideration the farmer's economy in obtaining the maximum profit and reducing input consumption costs is an important principle for us, which has caused, in addition to paying attention to the quality of produced products, the economical use of products through reducing prices and increasing the percentage of purity to be one of the main goals of the company.

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The category of growth-stimulating fertilizers includes a part of products produced based on raw materials of natural origin, which, in addition to high standards of quality and quantity (high density), are designed with full respect for the environment. Growth stimulants of Arman Sabz Adineh Co. strengthen and stimulate the natural processes of the plants, improve the absorption of nutrients and their effectiveness, increase the growth and development of the plant, and increase the resistance of the plant against environmental stresses, and they have been developed in such a manner that, in addition to paying special attention to resource stability, the formulation's efficiency can also be maximized





| | COMPONENT | W/W |
|--------------------|------------------------------------|-------|
| Composition | Total Nitrogen (N) | 2% |
| | Usable Phosphorus (P_2O_5) | 3% |
| | Water Soluble Potassium (K_2O) | 22% |
| | Free Amino Acid (FAA) | 8% |
| | Organic Matter (OM) | 66% |
| | Alginic Acid (Alg) | 14.6% |
| | Mannitol (MA) | 4% |

Advantages

- Great impact on improving the growth and quality of agricultural products
- A fundamental increase in resistance to environmental stress and improvement of the nutritional quality of the plant due to the presence of amino acids
- Increase the activity of microorganisms in the soil
- Increasing access to microelements in the soil

| Formulation | Packing | Technical tips |
|-------------|----------|-----------------------------|
| Powder | 1-2.5 Kg | Fertigation Foliar spray |





| | COMPONENT | W/V |
|--------------------|------------------------------------|-------|
| Composition | Total Nitrogen (N) | 5% |
| | Fulvic Acid (FA) | 1.6% |
| | Water Soluble Potassium (K_2O) | 0.18% |
| | Free Amino Acid (FAA) | 24% |
| | Organic Matter (OM) | 26% |
| | Total Amino Acid (AA) | 25% |

Advantages

- Increasing the quality and quantity of products
- Increasing the resistance of plants against environmental stresses including cold, heat, drought, and salinity
- Improve plant flowering, the longevity of pollen and flowers
- Promote rooting
- Increasing the resistance of plants against diseases and biological stresses
- Increase in photosynthesis and chlorophyll

| Formulation | Packing | Technical tips |
|-------------|---------|-----------------------------|
| Liquid | 1 Liter | Fertigation Foliar spray |





| | COMPONENT | W/V |
|--------------------|------------------------------------|-------|
| Composition | Total Nitrogen (N) | 4.6% |
| | Usable Phosphorus (P_2O_5) | 4.6% |
| | Water Soluble Potassium (K_2O) | 4.6% |
| | Seaweed extract (SW) | 5% |
| | Fulvic Acid (FA) | 3.5% |
| | Free Amino Acid (FAA) | 0.6% |
| | Organic Matter (OM) | 11.5% |

| | |
|-------------------|---|
| Advantages | • Increases vegetative growth |
| | • Meets all the plant's nutritional needs |
| | • Increases plant resistance to environmental stresses |
| | • Increases the yield of products |
| | • Increases the organic matter of the soil |
| | • Increases the plant's absorption ability of iron, zinc, and manganese |

| Formulation | Packing | Technical tips |
|-------------|-------------|----------------|
| Liquid | 5-10 Liters | Fertigation |





Dual-purpose fertilizers or resistance inducers are products with high activation properties in plants that trigger plant defense mechanisms, and they induce resistance in the plant by activating the natural endogenous barrier against harmful environmental factors. Arman Sabz dual-use fertilizers consist of formulations that, in addition to improving nutritional performance, provide innovative and environmentally friendly solutions and increase the inherent resistance of products.





| | COMPONENT | W/V |
|--------------------|---|-----|
| Composition | Water Soluble Potassium (K_2O) | 40% |
| | Water Soluble Silicon Dioxide (SiO_2) | 8% |
| | Total Sulfur (S) | 8% |
| | Phosphite (PO_3) | 8% |
| | Soluble Boron (B) | 2% |
| | Free Amino Acid (FAA) | 2% |

| | |
|-------------------|--|
| Advantages | • Increases tolerance to biotic and abiotic stress |
| | • Strengthens plant defense mechanisms |
| | • Protects plants from fungal disease |
| | • Prevents the spread of disease |
| | • Adjusts the nutrient absorption |
| | • Improves the marketability of the crops |
| | • Improves fruit flavor |

| Formulation | Packing | Technical tips |
|-------------|------------|-----------------------------|
| Liquid | 1-5 Liters | Fertigation Foliar spray |





| | COMPONENT | W/V |
|-------------|------------------|-----|
| Composition | Total Sulfur (S) | 90% |

Advantages

- Reduces the soil pH and increasing the absorption of micronutrients such as iron, zinc, phosphorus, etc.
- Releases essential elements fixed in the soil
- Increases growth and photosynthesis in plants
- Fungicidal and pest-repelling properties
- Improves saline and sodic soils

| Formulation | Packing | Technical tips |
|-------------|-------------|-----------------------------|
| Suspension | 5-20 Liters | Fertigation Foliar spray |





| | COMPONENT | W/V |
|--------------------|------------------------------------|-------|
| Composition | Water soluble Potassium (K_2O) | 18.5% |
| | Water soluble Sulfur (SO_4) | 16.2% |

- Advantages**
- Strengthens respiration and photosynthesis by removing dust from the leaf surface
 - Reduces the population of aphids, psyllium, and mites through plasmolization
 - Ionic surfactant content, environmentally friendly (without harmful substances to plants)
 - Contains sulfur and potassium for the general strengthening of plants

| Formulation | Packing | Technical tips |
|-------------|------------|----------------|
| Suspension | 1-5 Liters | Foliar spray |





| | COMPONENT | W/V |
|-------------|------------------------------------|-------|
| Composition | Total Phosphorus (P_2O_5) | 43% |
| | Water soluble Potassium (K_2O) | 28.5% |
| | Free Amino Acid (FAA) | 7.2% |
| | Total Amino Acid (AA) | 7.2% |

Advantages

- Enhances the resistance of the plants against fungal diseases and crown rot
- Stimulates root growth at the beginning of the cultivation period
- Increases the number of leaves and the photosynthesis rate
- Increases the number of flowers and fruit
- Increases fruit size and improving its color
- Increases the shelf life of the crops
- A multi-purpose product to deal with biotic and abiotic stresses
- High absorbency and excellent adaptability

Formulation

Liquid

Packing

1-5 Liters

Technical tips

Fertigation
Foliar spray



Special Fertilizers

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Arman Sabz's special fertilizers are exclusive, special products that are designed in different concentrations and ratios to ensure customer satisfaction at every stage of plant growth and development. These fertilizers are manufactured for specific purposes and are used in accordance with the various stages of plant growth. For instance, Extra Ka by having organic matter can boost the foliar absorption of potassium in a longer-lasting and guaranteed manner, as well as increase its durability in the soil. All fertilizers are designed and formulated for a specific purpose, which can meet the needs of plants well and with great effectiveness.





| | COMPONENT | W/V |
|--------------------|------------------------------------|------|
| Composition | Water soluble Potassium (K_2O) | 40% |
| | Organic Matter (OM) | 0.5% |

Advantages

- Increases in fruit size
- Improves fruit taste
- Accelerate fruit coloring
- Increases the resistance of plants to environmental and non-environmental stresses
- Increases quality and marketability of products
- Without sodium and chlorine
- 100% solubility

Formulation

Liquid

Packing

1-5 Liters

Technical tips

Foliar spray





| | COMPONENT | W/V |
|--------------------|-----------------------------|------|
| Composition | Total Nitrogen (N) | 35% |
| | Urea | 18% |
| | Nitrate (NO ₃) | 8.7% |
| | Ammonium (NH ₄) | 8.3% |

- Advantages**
- Contains three forms of nitrogen for both quick and slow access to the plant.
 - Vegetative growth stimulator
 - Rich and efficient fertilizer
 - Increases photosynthesis, chlorophyll production, and plant greenness
 - Cost-effective
 - High stability in soil
 - Suitable for calcareous soils due to its acidic characteristics.

| Formulation | Packing | Technical tips |
|-------------|------------|-----------------------------|
| Liquid | 1-5 Liters | Fertigation Foliar spray |





| | COMPONENT | W/V |
|-------------|------------------------------------|-----|
| Composition | Water soluble Potassium (K_2O) | 38% |
| | Total Sulfur (S) | 63% |
| | Thiosulfate (S_2O_3) | 44% |

Advantages

- Increases absorption of nutrients by adjusting pH
- Improves the freshness of plants
- Increases plant resistance against diseases, frost, salinity, and drought
- Improves the flavor of fruits and vegetables and the qualitative and quantitative characteristics of fruits
- Improves grain filling in cereals
- Oil increase in oilseeds
- Controls fungal diseases such as powdery mildew

Formulation

Liquid

Packing

5 Liters

Technical tips

Fertigation
Foliar spray





| | COMPONENT | W/V |
|--------------------|------------------------------------|-------|
| Composition | Total Nitrogen (N) | 9.6% |
| | Usable Phosphorus (P_2O_5) | 3.6% |
| | Water soluble Potassium (K_2O) | 8.4% |
| | EDTA Chelated Zinc (Zn) | 0.06% |
| | EDTA Chelated Iron (Fe) | 0.12% |
| | EDTA Chelated Copper (Cu) | 0.06% |
| | Soluble Boron (B) | 0.03% |
| | Amino Acid (AA) | 4% |
| | Organic Matter (OM) | 0.84% |

Advantages

- Provides all the nutritional needs of plants
- Rapid absorption through the roots and leaves
- Utilizable for all plants at all growth stages
- Contains microelements in chelate form
- Anti-environmental-stress
- Plant growth stimulator
- Without sodium and chlorine
- 100% solubility



| Formulation | Packing | Technical tips |
|-------------|----------|-----------------------------|
| Liquid | 5 Liters | Fertigation Foliar spray |



| | COMPONENT | W/W |
|-------------|-------------------|-----|
| Composition | Molybdenum (Mo) | 5% |
| | Soluble Zinc (Zn) | 10% |
| | Soluble Boron (B) | 2% |

Advantages

- Stimulate flowering
- Increase the conversion of flowers into fruits
- Increase performance
- 100% solubility
- Without chlorine and sodium
- Boosting enzyme activity and protein synthesis
- Nitrogen absorption enhancement

| Formulation | Packing | Technical tips |
|-------------|------------------------|-----------------------------|
| Powder | 250 gr 500gr 1Kg | Fertigation Foliar spray |





| | COMPONENT | W/V |
|--------------------|--|------|
| Composition | Total Amino Acid (AA) | 5% |
| | Humic Acid (HA) | 5% |
| | Water soluble Potassium (K ₂ O) | 8% |
| | Organic Matter (OM) | 8% |
| | Organic Carbon (OC) | 4.5% |

- Advantages**
- Increase root length
 - Reduction of nematode damage
 - Increase root volume
 - 100% solubility
 - Without chlorine and sodium

| Formulation | Packing | Technical tips |
|-------------|---------|----------------|
| Liquid | 1 Liter | Fertigation |





| | COMPONENT | W/W |
|-------------|-----------------------|-----|
| Composition | Soluble Calcium (CaO) | 40% |
| | Organic Matter (OM) | 20% |

Advantages

- Rapid elimination of calcium deficiency
- High leaf absorbency
- Increase product storage
- 100% solubility
- Without chlorine and sodium

| Formulation | Packing | Technical tips |
|-------------|---------|-----------------------------|
| Powder | 1 Kg | Fertigation Foliar spray |





| | COMPONENT | W/W |
|--------------------|-----------------------------|------|
| Composition | Chelated Iron (Fe) | 6% |
| | Soluble Iron (Fe) | 6% |
| | Chelated Iron (Fe) - EDDHSA | 3.4% |

Advantages

- Rapid elimination of iron deficiency
- Stability in soil
- 100% solubility
- Without chlorine and sodium

| Formulation | Packing | Technical tips |
|-------------|---------|-----------------------------|
| Powder | 1 Kg | Fertigation Foliar spray |





Single-Element Fertilizers

These fertilizers are formulated to meet only one of the elements required by plants. Single-element fertilizers are chelated with amino acids for better effectiveness and easier absorption by plants. In addition to chelating the element, the amino acid present in these compounds causes a better absorption of the element in the plant and causes it to move better within the plant organ; it also reduces the harmful effects of biotic and abiotic stresses on the plant. Increasing quality and crop yield are other roles of Amino acids in these types of fertilizers.





| | COMPONENT | W/V |
|--------------------|-----------------------|-------|
| Composition | Soluble Iron (Fe) | 6.7% |
| | Chelated Iron (Fe) | 6.7% |
| | Total Amino Acid (AA) | 13.4% |
| | Free Amino Acid (FAA) | 13.4% |

| Advantages | |
|-------------------|--|
| | <ul style="list-style-type: none"> • Removes Chlorosis resulting from loss of iron transfer at the earliest time possible • Improves plant resistance against environmental stress due to containing Amino Acid • Boosting function, quality, and the green color of the plant • High absorption speed and easy transfer to the target organs of the plant • High stability in alkaline water and soils • Without sodium and chlorine • 100% solubility |

| Formulation | Packing | Technical tips |
|--------------------|----------------|-----------------------------|
| Liquid | 1-5 Liters | Fertigation Foliar spray |





| | COMPONENT | W/V |
|--------------------|-----------------------|-----|
| Composition | Soluble Zinc (Zn) | 9% |
| | Chelated Zinc (Zn) | 9% |
| | Total Amino Acid (AA) | 13% |
| | Free Amino Acid (FAA) | 13% |

| Advantages | |
|-------------------|--|
| | <ul style="list-style-type: none">• Quick supply of zinc and elimination of symptoms of deficiency of this element at the earliest time• Enhances flowering and reduce the fall of flowers and fruit.• Effective in the synthesis of the hormones in the plant (especially the auxin hormone)• Effective in the synthesis of plant proteins• Increases resistance of plants against environmental stresses and disease• High stability in alkaline water and soil• Without sodium and chlorine• 100% solubility |

| Formulation | Packing | Technical tips |
|--------------------|----------------|-----------------------------|
| Liquid | 1-5 Liters | Fertigation Foliar spray |





| | COMPONENT | W/V |
|--------------------|------------------------|-----|
| Composition | Soluble Manganese (Mn) | 8% |
| | Manganese EDTA (Mn) | 8% |
| | Total Amino Acid (AA) | 8% |
| | Free Amino Acid (FAA) | 8% |

Advantages

- Quick Mn absorption by plants
- Quick transport inside the vascular system
- Enhances yield and improving crop quality
- Improves photosynthetic efficiency
- High stability in alkaline water and soil
- Without sodium and chlorine
- 100% solubility

| Formulation | Packing | Technical tips |
|-------------|------------|-----------------------------|
| Liquid | 1-5 Liters | Fertigation Foliar spray |





| | COMPONENT | W/W |
|--------------------|-----------------------|-----|
| Composition | Soluble Calcium (CaO) | 14% |
| | Total Amino Acid (AA) | 14% |
| | Free Amino Acid (FAA) | 14% |

Advantages

- An important source of Calcium
- elimination of symptoms of Ca deficiency at the earliest time
- High stability in alkaline soil
- Increases plant resistance against environmental stresses (drought, saltiness, and temperature stress).
- Increases the fruit firmness and fruit skin transparency, as well as increasing crop shelf life
- Reduces bitter pit and scald in apple
- Reduces (blossom-end Rot) in tomato, watermelon, and sweet pepper.
- Reduces burn and bone skin spot caused by Ca deficiency
- Reduces the complications resulting from Calcium deficiency such as Endocarp Lesion.
- Prevents being sunburned or cracked in some fruits like pomegranate
- Without sodium and chlorine
- 100% solubility

| Formulation | Packing | Technical tips |
|-------------|------------|-----------------------------|
| Liquid | 1-5 Liters | Fertigation Foliar spray |





| | COMPONENT | W/V |
|--------------------|--------------------------------------|------|
| Composition | Soluble Potassium (K ₂ O) | 32% |
| | Total Amino Acid (AA) | 6.5% |
| | Free Amino Acid (FAA) | 6.5% |

Advantages

- Boosts the function of plants in environmental stresses such as saltiness, high temperature, drought, etc., especially in critical steps such as flowering and fruiting.
- Increases fruit size
- Enhances the steady growth of products
- Improves taste and marketability of crops
- Improves absorption of other nutrients
- Without sodium and chlorine
- 100% solubility

| Formulation | Packing | Technical tips |
|-------------|------------|-----------------------------|
| Liquid | 1-5 Liters | Fertigation Foliar spray |





| | COMPONENT | W/V |
|-------------|-------------------|-----|
| Composition | Soluble Boron (B) | 14% |

Advantages

- Increases the sugar content of products such as beets and sugarcane
- Suits all plant types such as pistachio, grape, and olive
- Quick Boron supplying in both heavy and lime soil
- Quick solving Boron deficiency by foliar spraying
- Without sodium and chlorine
- 100% solubility

| Formulation | Packing | Technical tips |
|-------------|-------------|-----------------------------|
| Liquid | 1-20 Liters | Fertigation Foliar spray |



Complete fertilizers

Complete macro fertilizer, also known as NPK fertilizer, contains three main elements: nitrogen, phosphorus, and potassium. This fertilizer is highly consumed in modern agriculture due to the combination of important elements required by plants. NPKs produced by this company have an optimal formulation suitable for alkaline and saline soils. Arman Sabz NPK fertilizers can be used in orchards, farms, and saline lands due to the lack of chlorine in the formulation. Also, due to the use of ammonium sulfate, it has solved the problem of nitrogen leaching compared to other similar fertilizers. The presence of soluble sulfur in the form of sulfate in this fertilizer, in addition to improving soil salinity, enables the highest absorption of nutrients by the plant.





| | 10-52-10 | 12-12-36 | 20-20-20 | 30-10-10 | 15-5-35 | 17-17-17 | 12-12-17 | 10-5-10 | 5-5-5 |
|---------------------------------|----------|----------|----------|----------|---------|----------|----------|---------|-------|
| N% | 10 | 12 | 20 | 30 | 15 | 17 | 12 | 10 | 5 |
| P ₂ O ₅ % | 52 | 12 | 20 | 10 | 5 | 17 | 12 | 5 | 5 |
| K ₂ O% | 10 | 36 | 20 | 10 | 35 | 17 | 17 | 10 | 5 |

NPK 20-20-20

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Advantages

- High solubility without sediment
- Without chlorine, sodium, and heavy elements
- Suitable for alkaline and calcareous soils
- Foliar spraying capability
- Can be used for all stages of plant growth

| Formulation | Packing | Technical tips |
|-------------|---------|-----------------------------|
| Powder | 10 Kg | Fertigation Foliar spray |





Advantages

- High solubility without sediment
- Without chlorine, sodium, and heavy elements
- Suitable for alkaline and calcareous soils
- Foliar spraying capability
- Increase rooting
- Increase flowering

| Formulation | Packing | Technical tips |
|-------------|---------|-----------------------------|
| Powder | 10 Kg | Fertigation Foliar spray |



NPK 30-10-10

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Advantages

- High solubility without sediment
- Without chlorine, sodium, and heavy elements
- Suitable for alkaline and calcareous soils
- Foliar spraying capability
- Increases photosynthesis and chlorophyll
- Increases plant foliage
- Increases growth

| Formulation | Packing | Technical tips |
|-------------|---------|-----------------------------|
| Powder | 10 Kg | Fertigation Foliar spray |





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NPK
12-12-36

Advantages

- High solubility without sediment
- Without chlorine, sodium, and heavy elements
- Suitable for alkaline and calcareous soils
- Foliar spraying capability
- Increases fruit size
- Assists in the filling of cereal grains
- Boosts plants resistance to disease and environmental stress

Formulation

Powder

Packing

10 Kg

Technical tips

Fertigation
Foliar spray



NPK 15-5-35

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Advantages

- Full supply of the plant's nutritional needs
- Without chlorine and sodium
- 100% solubility
- Foliar spraying capability
- Suitable for alkaline soils
- Increase the product size

| Formulation | Packing | Technical tips |
|-------------|---------|-----------------------------|
| Powder | 10 Kg | Fertigation Foliar spray |





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NPK
20-20-20+TE

Advantages

- Full supply of the plant's nutritional needs
- Free of chlorine and sodium
- 100% solubility
- Contains elements of iron, zinc, manganese, copper in the form of chelate
- Foliar spraying capability

Formulation

Powder

Packing

10 Kg

Technical tips

Fertigation
Foliar spray



NPK 17-17-17+TE

ArmanSabz
Adineh



Advantages

- Full supply of the plant's nutritional needs
- Free of chlorine and sodium
- 100% solubility
- Contains elements of iron, zinc, manganese, copper in the form of chelate
- Foliar spraying capability

| Formulation | Packing | Technical tips |
|-------------|---------|-----------------------------|
| Powder | 10 Kg | Fertigation Foliar spray |





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NPK
10-5-10

Advantages

- Provides nutrients at the beginning of growth
- Suitable for deep placement and pre-plant consumption
- Without nitrogen leaching
- Without chlorine, sodium, and heavy elements

| Formulation | Packing | Technical tips |
|-------------|---------|-----------------------------|
| Granular | 25 Kg | Deep placement Pre-plant |



NPK 12-12-17

ArmanSabz
Adineh



Advantages

- Provides nutrients at the beginning of growth
- Suitable for deep placement and pre-plant consumption
- Without nitrogen leaching
- Without chlorine, sodium, and heavy elements

| Formulation | Packing | Technical tips |
|-------------|---------|-----------------------------|
| Granular | 25 Kg | Deep placement Pre-plant |





ArmanSabz
Adineh

NPK

5-5-5+HA+S+TE

Advantages

- Full supply of the plant's nutritional needs
- Release slowly
- Suitable for alkaline soils
- No problem in Nitrogen leaching
- Contains elements of iron, zinc and manganese in the form of chelate
- Contains Humic Acid

| Formulation | Packing | Technical tips |
|-------------|---------|---|
| Granular | 25 Kg | Release slowly Deep placement Pre-plant |



Acidic NPK 12-12-36+TE

ArmanSabz
Adineh



| Composition | COMPONENT | W/W |
|-------------|------------------------------------|--------|
| | Total Nitrogen (N) | 12% |
| | Usable Phosphorus (P_2O_5) | 12% |
| | Water soluble Potassium (K_2O) | 36% |
| | EDTA-chelated Zinc (Zn) | 0.06% |
| | EDTA-chelated Iron (Fe) | 0.12% |
| | EDTA-chelated Copper (Cu) | 0.06% |
| | EDTA-chelated Manganese (Mn) | 0.06% |
| | Soluble Boron (B) | 0.026% |
| | Soluble Molybdenum (Mo) | 0.01% |

- Advantages**
- Soil acidification
 - Supplies all of the nutritional requirements of plants
 - High solubility in water
 - Rapid absorption through the roots and leaves
 - Increases the quality of crop
 - Increases fruit and grain size
 - Increases crop flavor
 - Suitable for alkaline soils
 - Without sedimentation in the solution

| Formulation | Packing | Technical tips |
|-------------|---------|-----------------------------|
| Powder | 2 Kg | Fertigation Foliar spray |





Acidic NPK 20-20-20+TE

| Composition | COMPONENT | W/W |
|-------------|------------------------------------|--------|
| | Total Nitrogen (N) | 20% |
| | Usable Phosphorus (P_2O_5) | 20% |
| | Water soluble Potassium (K_2O) | 20% |
| | EDTA-chelated Zinc (Zn) | 0.06% |
| | EDTA-chelated Iron (Fe) | 0.12% |
| | EDTA-chelated Copper (Cu) | 0.06% |
| | EDTA-chelated Manganese (Mn) | 0.06% |
| | Soluble Boron (B) | 0.026% |
| | Soluble Molybdenum (Mo) | 0.01% |

Advantages

- Soil acidification
- Supplies all of the nutritional requirements of plants
- High solubility in water
- Rapid absorption through the roots and leaves
- Suitable for consumption in all stages of plants
- Suitable for alkaline soils
- Without sedimentation in the solution

Formulation

Powder

Packing

2 Kg

Technical tips

Fertigation
Foliar spray

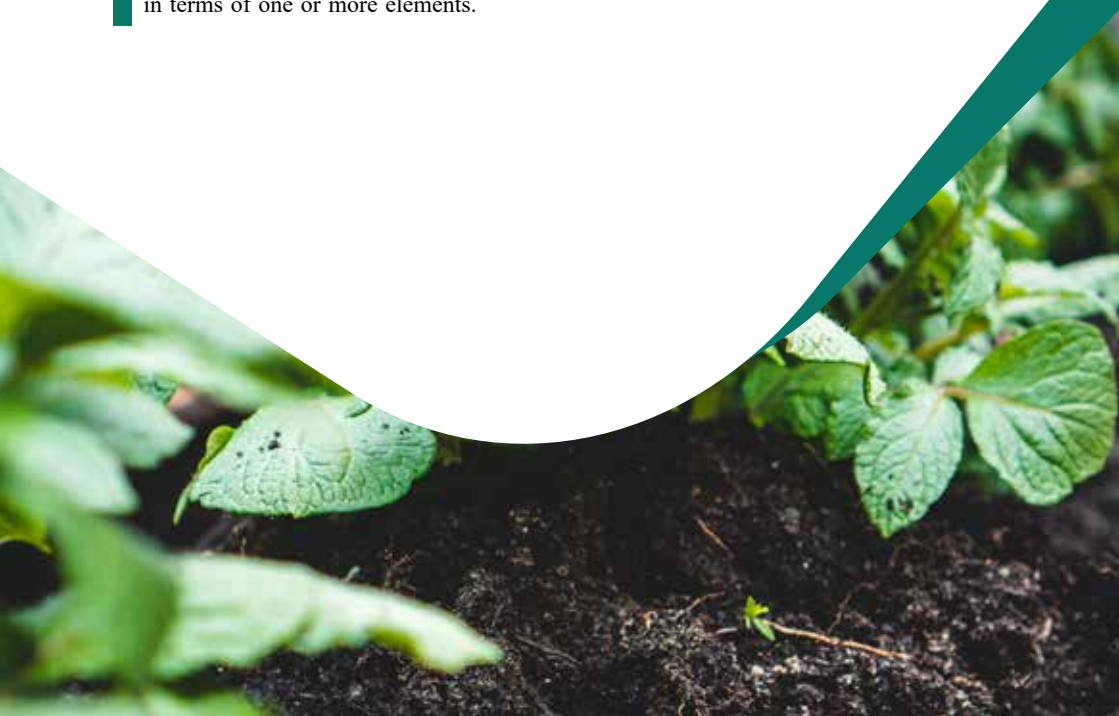


Two & Multi-Elemental Fertilizers

ArmanSabz
Adineh



Multi-element fertilizers are usually a combination of essential elements necessary for plants. They play an essential role in solving the complications related to nutrient deficiency, and at the same time, they address many challenges in the plant. These fertilizers are considered multi-purpose and they improve the crop quality, and yield, and increase the vegetative and reproductive growth of the plant. The consumption of these fertilizers is equivalent to the consumption of several fertilizers, and in their production, the elements have been balanced and properly proportioned in their production, so that all of the elements in the fertilizer composition are absorbed in the proper amounts and do not interfere with the absorption of other elements in the composition. Consumption of these fertilizers is especially important when there is a need to solve the problem of a lack of several elements in the plant at the same time or when the plant needs to be strengthened in terms of one or more elements.





| | COMPONENT | W/V |
|-------------|--------------------------------|-------|
| Composition | Usable Phosphorus (P_2O_5) | 7.2% |
| | Soluble Calcium (Ca) | 22.5% |
| | Soluble Zinc (ZN) | 1.3% |

Advantages

- Increases rooting
- Prevents the death of terminal buds
- Shelf life extending
- Quick supply of Calcium, phosphorus, and Zinc
- Contains Surfactant, which results in an increase in foliar absorption
- Without sodium and chlorine
- 100% solubility

Formulation

Liquid

Packing

5 Liters

Technical tips

Fertigation
Foliar spray





| | COMPONENT | W/V |
|--------------------|-----------------------|------|
| Composition | Soluble Calcium (CaO) | 9.4% |
| | Soluble Boron (B) | 2.7% |

Advantages

- An important source of Calcium and Boron
- Prevents the death of terminal bud, fruit drop and abortion, vegetables and summer crops, and especially greenhouse crops.
- Reduces burn and bone skin spot
- Improves the quality and shelf life of fruits and vegetables
- Increases cell strength, which results in keeping the tissue firmness
- Increases the resistance of plants to pests, diseases, and stresses

| Formulation | Packing | Technical tips |
|-------------|------------|-----------------------------|
| Liquid | 1-5 Liters | Fertigation Foliar spray |





| | COMPONENT | W/V |
|-------------|--|--------|
| Composition | Soluble Silicon (SiO_2) | 17.55% |
| | Water soluble Potassium (K_2O) | 7% |

Advantages

- Increasing the fertility of a variety of products such as cereals (especially rice), vegetables, and fruit trees
- Increasing the resistance against environmental tensions such as extreme heat, coldness, drought, and saltiness
- The optimal potassium-silica ratio for maximum efficiency
- Increasing the durability of products after harvest
- Improving visual quality in terms of color and taste
- Controlling the growth and height of the Gramineae plants
- Increasing resistance against viruses
- Stimulant formation of the cell wall and cuticle
- Controlling evaporation and transpiration
- Increasing stem strength (preventing from lodging)
- Preventing pod emptiness

| Formulation | Packing | Technical tips |
|-------------|------------|-----------------------------|
| Liquid | 1-5 Liters | Fertigation Foliar spray |





| | COMPONENT | W/V |
|--------------------|------------------------------------|-----|
| Composition | Usable Phosphorus (P_2O_5) | 30% |
| | Water soluble Potassium (K_2O) | 40% |
| | Seaweed extract (SW) | 5% |

Advantages

- Increases growth and maintain primary roots in the plant
- Contains Ascophyllum nodosum algae
- Increases flowering
- Increases fruit size and weight
- Increases the resistance against environmental stresses.
- Increases crop quality and quantity
- 100% solubility

| Formulation | Packing | Technical tips |
|-------------|------------|-----------------------------|
| Liquid | 1-5 Liters | Fertigation Foliar spray |





| Composition | COMPONENT | W/W |
|--------------------|-------------------------|------------|
| | Soluble Iron (Fe) | 4% |
| | Soluble Manganese (Mn) | 4% |
| | Soluble Zinc (Zn) | 6% |
| | Soluble Copper (Cu) | 0.5% |
| | Soluble Molybdenum (Mo) | 0.05% |
| | Soluble Boron (B) | 0.5% |
| | Organic Matter (OM) | 56% |
| | Amino Acid (AA) | 16% |

Advantages

- Effective in the synthesis of important plant proteins, hormones, and enzymes
- Increases the efficiency of photosynthesis and plant yield
- high concentration of specific amino acids to deal with stress
- Antioxidant activator in the plant
- Increases crop quality
- Without sodium and chlorine
- 100% solubility

Formulation

Powder

Packing

1 Kg

Technical tips

Fertigation
Foliar spray





| | COMPONENT | W/V |
|--------------------|--------------------------------|------|
| Composition | Total Nitrogen (N) | 3.5% |
| | Usable Phosphorus (P_2O_5) | 3.5% |
| | Soluble Manganese (Mn) | 1% |
| | Soluble Zinc (Zn) | 8% |
| | Soluble Boron (B) | 0.5% |

Advantages

- Increases germinating power of seeds
- Root development and improve absorption of water and nutrients by the plant
- Improves seedling establishment at the beginning of growth
- Increases crop quality and yield

| Formulation | Packing | Technical tips |
|-------------|------------|----------------|
| Liquid | 1-5 Liters | Seed treatment |





| Composition | COMPONENT | W/V |
|----------------------|--|------------|
| | Total Nitrogen (N) | 7% |
| | Total Amino Acid (AA) | 14.1% |
| | Free Amino Acid (FAA) | 14.1% |
| | Soluble Zinc (Zn) | 7% |
| | Chelated Zinc (Zn) | 7% |
| | Soluble Boron (B) | 2.8% |
| | Water soluble Potassium (K ₂ O) | 7.3% |
| Chelated Copper (Cu) | 1.1% | |

Advantages

- High absorption rate through leaves
- Increases flowering
- Increases tree resistance against environmental stresses including frost damage
- Increases flowering and the efficiency of converting flowers into fruits
- Increases the growth and development of green organs at the beginning of the period
- Without sodium and chlorine
- 100% solubility

| Formulation | Packing | Technical tips |
|--------------------|----------------|-----------------------|
| Suspension | 1 Liter | Foliar spray |





| | COMPONENT | W/W |
|--------------------|-----------------------|------|
| Composition | Total Nitrogen (N) | 9% |
| | Total Amino Acid (AA) | 6.5% |
| | Free Amino Acid (FAA) | 6.5% |
| | Soluble Zinc (Zn) | 6.5% |
| | Chelated Zinc (Zn) | 6.5% |
| | Soluble Boron (B) | 2.5% |

Advantages

- High absorption rate through leaves
- Increases flowering
- Increases in fruiting
- Increases the growth and development of green organs at the beginning of the growth period
- Decreases alternate bearing of fruit trees
- Increases cold tolerance in winter and early spring
- Increases crop quality and yield

| Formulation | Packing | Technical tips |
|-------------|---------|----------------|
| Liquid | 1 Liter | Foliar spray |





| Composition | COMPONENT | W/V |
|--------------------|--|------------|
| | Total Nitrogen (N) | 6% |
| | Total Amino acid (AA) | 7.2% |
| | Free Amino acid (FAA) | 7.2% |
| | Soluble Zinc (Zn) | 7.2% |
| | Chelated Zinc (Zn) | 7.2% |
| | Soluble Boron (B) | 3.1% |
| | Water soluble Potassium (K ₂ O) | 17.5% |

| Advantages |
|---|
| <ul style="list-style-type: none">• High absorption rate through leaves• Increases flowering• Speeds up the process of leave fall in the autumn• Increases tree resistance against environmental stresses including frost damage• Increases the efficiency of converting blossoms into fruits the following spring• Helps to complete the chilling requirement of trees• Increases the growth and development of green organs at the beginning of the growth period |

| Formulation | Packing | Technical tips |
|--------------------|----------------|-----------------------|
| Liquid | 1 Liter | Foliar spray |





| | COMPONENT | W/W |
|--------------------|-------------------|-----|
| Composition | Soluble Zinc (Zn) | 4% |
| | Soluble Boron (B) | 13% |

Advantages

- Stimulate flowering
- Increase the conversion of flowers into fruits
- Increase performance
- 100% solubility
- Without chlorine and sodium

| Formulation | Packing | Technical tips |
|-------------|---------|-----------------------------|
| Powder | 1 Kg | Fertigation Foliar spray |





These fertilizers are used to preserve and increase soil fertility and address any potential issues in the soil. For instance, in soils with salinity and sodium problems, the concentration of mineral salts in the soil solution phase should be reduced to a balanced level, and this is done by leaching and using a large amount of water. Considering the water crisis in the country, it is better to apply alternative solutions. One of these methods is the use of soil conditioners. Furthermore, when there is an abundance of exchangeable sodium in the soil, the soil will face problems such as dispersion, crust, and lack of permeability. Calcium consumption, especially when combined with organic substances, will greatly improve such soils.





| | COMPONENT | W/V |
|--------------------|-----------------------------------|-------|
| Composition | Soluble Calcium (CaO) | 19.5% |
| | Soluble Sulfur (SO ₄) | 45% |

Advantages

- Reduces the saltiness stress resulting from Sodium of soil (reducing SAR)
- A rich and fast source of Calcium and Sulfur
- High efficiency compared to conventional gypsum (25 liters of this fertilizer is equivalent to one ton of ordinary gypsum).
- The tiny particle size ensures improved coverage and amplifies the soil conditioning and clay-busting capacity of gypsum
- Increases penetration depth of soil
- Useful in forming the soil structure and soil conditioning as well as preventing soil crusting
- Considered to be an ideal product for organic farmers who are looking for a natural source of calcium and sulfur
- The best option for light, sandy soils with poor retention of both Calcium and Sulfur
- High efficiency for the products like canola and root crops, which face lack of Sulfur at the early season

| Formulation | Packing | Technical tips |
|-------------|-------------|----------------|
| Liquid | 5-20 Liters | Fertigation |





| | COMPONENT | W/V |
|--------------------|-----------------------|------------|
| Composition | Soluble Calcium (CaO) | 13% |
| | Organic Matter (OM) | 12.5% |

Advantages

- Improves the physical structure of the soil and increasing soil conditioning
- Increases soil penetration and preventing soil crusting
- Increases organic matter in the soil
- Enhances the rooting of the plant
- Reduces soil salinity to an appropriate level
- Improved sodium leaching from the soil
- Increases soil fertility
- Balances soil pH
- Activates soil microorganisms

| Formulation | Packing | Technical tips |
|--------------------|----------------|-----------------------|
| Liquid | 5-20 Liters | Fertigation |





| | COMPONENT | W/V |
|--------------------|-----------------------------------|-------|
| Composition | Nitrogen (N) | 17% |
| | Soluble Sulfur (SO ₄) | 48% |
| | Soluble Iron (Fe) | 0.35% |
| | Soluble Zinc (Zn) | 1.4% |

Advantages

- Remediates saline soils
- Releases soil-stabilized phosphorus and calcium and provides it to the plant
- Increases absorption of microelements by plants
- Enhances vegetative growth
- Neutralizes the bicarbonate in irrigation water
- Removes sediment in irrigation nozzles
- Solves iron and zinc deficiency in calcareous soils

| Formulation | Packing | Technical tips |
|-------------|-------------|----------------|
| Liquid | 5-20 Liters | Fertigation |





| | COMPONENT | W/V |
|--------------------|------------------------------------|------------|
| Composition | Organic Matter (OM) | 40% |
| | Fulvic Acid (FA) | 5% |
| | Total Nitrogen (N) | 5% |
| | Water soluble Potassium (K_2O) | 1% |

| Advantages | • Completely organic and free of residual effects in the environment |
|-------------------|--|
| | • Suitable for irrigation system cleansing |
| | • Increases the efficiency of fertilizers and pesticides in agriculture by reducing their hydrolysis |
| | • Reduces the pH of alkaline soils and improving the uptake of most nutrients |
| | • Improves soil structure and improving the water hardness and reducing its sediments |
| | • Compatible with most pesticides and fertilizers |

| Formulation | Packing | Technical tips |
|--------------------|----------------|---|
| Liquid | 1-5 Liters | Fertigation Foliar spray Irrigation system flushing |





Advantages

- Non-ionic surfactant that can be used by foliar spraying
- Increases the adherence of sprayed insecticides and fertilizers on leaves and Increasing their durability against rain and wind
- the capacity to combine with different types of fertilizers and pesticides due to non-ionicity
- Prevents the formation of drops of fertilizer and pesticides on the leaf
- Preserves fertilizers on plants and increasing their absorption and efficiency
- Eco-friendly and free of harmful substances for plants
- Controlled pH to prevent fertilizer hydrolysis and leaf burn
- Reduces the consumption of pesticides and fertilizers
- Increases the rate of fertilizer and pesticide absorption into the plant and pest body

| Formulation | Packing | Technical tips |
|-------------|------------|----------------|
| Liquid | 100-250 CC | Foliar spray |





| | COMPONENT | W/V |
|--------------------|------------------------------------|-----|
| Composition | Humic Acid | 12% |
| | Water soluble Potassium (K_2O) | 3% |
| | Fulvic Acid (FA) | 1% |

Advantages

- The first oxidized Humic in Iran
- Potent chelating of the elements in soil
- Reducing the pH of alkaline soils
- Improving soil structure and amplifying the soil conditioning and soil structure enhancement
- Increase the activity of microorganisms in the soil

Formulation

Liquid

Packing

5-20 Liters

Technical tips

Irrigation system flushing





| | COMPONENT | W/W |
|--------------------|------------------------------------|-----|
| Composition | Humic Acid | 55% |
| | Water soluble Potassium (K_2O) | 12% |
| | Fulvic Acid (FA) | 2% |

Advantages

- The first oxidized Humic in Iran
- Potent chelating of the elements in soil
- Reducing the pH of alkaline soils
- Improving soil structure and amplifying the soil conditioning and soil structure enhancement
- Organic matter supplement to the plants
- Increase the activity of microorganisms in the soil

| Formulation | Packing | Technical tips |
|-------------|---------|----------------------------|
| Powder | 1 Kg | Irrigation system flushing |







Website



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