

**Beniz Tajhiz Co.** was established as a dynamic Company specializing in water industry in 2005. With almost two decades experience in designing, procurement and construction of water related systems in Oil, Gas, Petrochemical, Power Plant and Steel industries, with response to importance of optimal use of water in agriculture section as the biggest consumer of water in the world scale, we have special consideration to this branch. So in cooperation with many pioneer international companies play an important role to improve irrigation efficiency, saving water and environment.

Beniz Tajhiz Co. in addition to high quality, has created a team which consulting engineers, designers, executives and farmers can easily and surely provide the equipment needed for their projects from the best instruments in the world.

Beniz Tajhiz Co. in order to completion and improvement its services, by use of technical knowledge of experienced experts begin to produce Macro & Micro fertilizer which capable to use in modern irrigation systems and foliar application.



## FERTINOX 10-50-10 +TE +Amino Acid

•• Fully soluble N-P-K +AA+Te

N	(P <sub>2</sub> O <sub>5</sub> )	(K <sub>2</sub> O)	Amino Acid	Fe	Mn	Zn	Cu	B	Mo
10	50	10	1	1000	500	500	500	200	50
%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm



### This compound is used for:

- Supply of Nitrogen, Phosphorous and potassium plus amino acids and microelements for plants
- Suitable for fertigation and foliar applications
- Anti-stress and plant growth stimulants
- It increase root growth and development
- Flower induction and fruit set
- Enriched by microelements chelated by EDTA



### **Fertinox 10-50-10:**

It is a fully soluble form of N, P and K sources for fertigation and foliar application. It is recommended to use it for all vegetables, fruit trees and cereals. It is free of chloride and it is suitable for application in the sensitive plants to chloride. It increases the yield and quality of crops. Ingredients of fertinox 10-50-10 are Mono ammonium phosphate, Mono potassium phosphate, Urea and chelated Fe, Mn, Zn, Cu, B and Mo.



### **Notice:**

Do Not Mix it with calcium compounds.

### **Fertilizer Usages:**

**Cereals:** Depend on the soil test, apply before tillering or starting stage 25 -50 Kg per ha

**Fruit trees:** apply at early stage and after harvest, 25 -50 kg per ha.

**Greenhouse Crops:** at growth stage when the plant growth is starting 15 -50 kg per ha. Depend on soil test.

**Notice:** please use it during growth stages in different replications.

### **Foliar applications:**

It is recommended to use as foliar in dose of 0.4-0.5 percent in the spray application for all crops for phosphorous deficiency treatment.



FERTINOX 20-20-20 +TE +Amino Acid

••• Fully soluble N-P-K +AA+Te

N	(P <sub>2</sub> O <sub>5</sub> )	(K <sub>2</sub> O)	Amino Acid	Fe	Mn	Zn	Cu	B	Mo
20	20	20	1	1000	500	500	500	200	50
%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm



#### This compound is used for:

- Supply of Nitrogen, Phosphorous and potassium plus amino acids and microelements for plants
- Suitable for fertigation and foliar applications
- Anti-stress and plant growth stimulants
- Enriched by microelements chelated by EDTA



### **Fertinox 20-20-20:**

It is a fully soluble form of N, P and K sources for fertigation and foliar application. It is recommended to use it for all vegetables, fruit trees and cereals. It is free of chloride and it is suitable for application in the sensitive plants to chloride. It increases the yield and quality of crops. Ingredients of fertinox 20-20-20 are Mono ammonium phosphate, Mono potassium phosphate, potassium Nitrate, sulfuate of potassium, urea and chelated Fe, Mn, Zn, Cu, B and Mo.



### **Notice:**

Do Not Mix it with calcium compounds.

### **Fertilizer Usages:**

**Cereals:** Depend on the soil test, apply at tillering or before filling stage 25-50 Kg per ha

**Fruit trees:** apply at early stage and fruit growth, 25-50 kg per ha.

**Greenhouse Crops:** at growth stage when the plant growth is starting 50-15 kg per ha. Depend on soil test.

**Notice:** please use it during growth stages in different replications.

### **Foliar applications:**

It is recommended to use as foliar in dose of 0.4-0.5 percent in the spray application for all crops for potassium and phosphorous deficiency treatment.



FERTINOX 18-08-30 +TE +Amino Acid

••• Fully soluble N-P-K +AA+Te

N	(P <sub>2</sub> O <sub>5</sub> )	(K <sub>2</sub> O)	Amino Acid	Fe	Mn	Zn	Cu	B	Mo
18	8	30	1	1000	500	500	500	200	50
%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm



#### This compound is used for:

- Supply of Nitrogen, Phosphorous and potassium plus amino acids and microelements for plants
- Suitable for fertigation and foliar applications
- Anti-stress and plant growth stimulants
- Enriched by microelements chelated by EDTA



### **Fertinox 18-08-30:**

It is a fully soluble form of N, P and K sources for fertigation and foliar application. It is recommended to use it for all vegetables, fruit trees and cereals. It is free of chloride and it is suitable for application in the sensitive plants to chloride. It increases the yield and quality of crops. Ingredients of fertinox 18-08-30 are Mono ammonium phosphate, Mono potassium phosphate, potassium Nitrate, sulfuate of potassium, urea and chelated Fe, Mn, Zn, Cu, B and Mo.



### **Notice:**

Do Not Mix it with calcium compounds.

### **Fertilizer Usages:**

Cereals: Depend on the soil test, apply at filling stage 25 -50 Kg per ha

Fruit trees: apply at late stage and fruit growth, 25 -50 kg per ha.

Greenhouse Crops: when the plant growth is in the final stage 15 -50 kg per ha. Depend on soil test.

**Notice:** please use it during growth stages in different replications.

### **Foliar applications:**

It is recommended to use as foliar in dose of 0.4-0.5 percent in the spray application for all crops for deficiency treatment.



FERTINOX 10-04-44 +TE +Amino Acid

••• Fully soluble N-P-K +AA+Te

N	(P <sub>2</sub> O <sub>5</sub> )	(K <sub>2</sub> O)	Amino Acid	Fe	Mn	Zn	Cu	B	Mo
18	10	4	44	1000	500	500	500	200	50
%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm



#### This compound is used for:

- Supply of Nitrogen, Phosphorous and potassium plus amino acids and microelements for plants
  - Suitable for fertigation and foliar applications
  - Anti-stress and plant growth stimulants
  - Enriched by microelements chelated by EDTA
- It is for final growth





### **Fertinox 10-04-44:**

It is a fully soluble form of N, P and K sources for fertigation and foliar application. It is recommended to use it for all vegetables, fruit trees and cereals. It is free of chloride and it is suitable for application in the sensitive plants to chloride. It increases the yield and quality of crops. Ingredients of fertinox 10-04-44 are Mono ammonium phosphate, Mono potassium phosphate, potassium Nitrate, sulfate of potassium, urea and chelated Fe, Mn, Zn, Cu, B and Mo.



### **Notice:**

If you want to Mix it with any compounds please do the jar test.

### **Fertilizer Usages:**

**Cereals:** Depend on the soil test, apply at filling stage 25 -50 Kg per ha

**Fruit trees:** apply at late stage and fruit growth, 25 -50 kg per ha.

**Greenhouse Crops:** when the plant growth is in the final stage 15 -50 kg per ha. Depend on soil test.

**Notice:** please use it during growth stages in different replications.

### **Foliar applications:**

It is recommended to use as foliar in dose of 0.4-0.5 percent in the spray application for all crops for deficiency treatment.



FERTINOX 0-0-51

●●● Fully soluble potassium sulfate

(K <sub>2</sub> O)	(SO <sub>3</sub> )
51	38
%	%



**This compound is used for:**

- Supply of potassium and sulfur for plants
- Suitable for fertigation and foliar applications
- Filling the grains
- Fruit growth and ripening
- Color and sugar formation in fruit



### **Fertinox 0-0-51:**

It is a fully soluble form of potassium and sulfur source for fertigation and foliar application. It is recommended to use it for all vegetables, fruit trees and cereals. It is free of chloride and it is suitable for application in the sensitive plants to chloride. Potassium demanded crops such as lettuce, potato, tomato, and cabbage are highly respond to potassium sulfate application. Potassium sulfate resulted in yield and quality of products.



### **Notice:**

Do Not Mix it with calcium and high acidic compounds.

### **Fertilizer Usages:**

**Cereals:** Depend on the soil test, apply at tillering or before filling stage 25 -50 Kg per ha

**Fruit trees:** apply at fruit growth and before color formation, 25 -30 kg per ha.

**Greenhouse Crops:** at growth stage when the plant growth is starting 15 -50 kg per ha. Depend on soil test.

**Notice:** please use it during growth stages in different replications.

### **Foliar applications:**

It is recommended to use as foliar in dose of 0.3-0.5 percent in the spray application for all crops for potassium deficiency treatment



**FERTINOX 13-40-13 +MgO+TE +Amino Acid**

●● Fully soluble N-P-K +AA+Te

N	(P <sub>2</sub> O <sub>5</sub> )	(K <sub>2</sub> O)	Amino Acid	Fe	Mn	Zn	Cu	B	Mo
13 %	40 %	13 %	1 %	1000 ppm	500 ppm	500 ppm	500 ppm	200 ppm	50 ppm

**This compound is used for:**

- Supply of Nitrogen, Phosphorous and potassium plus amino acids and microelements for plants
- Suitable for fertigation and foliar applications
- Anti-stress and plant growth stimulants
- It increase root growth and development
- Flower induction and fruit set
- Enriched by microelements chelated by EDTA



**1 kg**



### **Fertinox 13-40-13:**

It is a fully soluble form of N, P and K sources for fertigation and foliar application. It is recommended to use it for all vegetables, fruit trees and cereals. It is free of chloride and it is suitable for application in the sensitive plants to chloride. It increases the yield and quality of crops. Ingredients of fertinox 13-40-13 are Mono ammonium phosphate, Mono potassium phosphate, Urea and chelated Fe, Mn, Zn, Cu, B and Mo.



### **Notice:**

Do Not Mix it with calcium compounds.

### **Fertilizer Usages:**

**Cereals:** Depend on the soil test, apply before tillering or starting stage 25 -50 Kg per ha

**Fruit trees:** apply at early stage and after harvest, 25 -50 kg per ha.

**Greenhouse Crops:** at growth stage when the plant growth is starting 15 -50 kg per ha. Depend on soil test.

**Notice:** please use it during growth stages in different replications.

### **Foliar applications:**

It is recommended to use as foliar in dose of 0.4-0.5 percent in the spray application for all crops for phosphorous deficiency treatment.



FERTINOX 20-20-20+MgO+TE+Amino Acid

••• Fully soluble N-P-K +AA+Te

N	(P <sub>2</sub> O <sub>5</sub> )	(K <sub>2</sub> O)	Amino Acid	Fe	Mn	Zn	Cu	B	Mo
20	20	20	1	1000	500	500	500	200	50
%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm

#### This compound is used for:

- Supply of Nitrogen, Phosphorous and potassium plus amino acids and microelements for plants
- Suitable for fertigation and foliar applications
- Anti-stress and plant growth stimulants
- Enriched by microelements chelated by EDTA



1 kg



### **Fertinox 20-20-20:**

It is a fully soluble form of N, P and K sources for fertigation and foliar application. It is recommended to use it for all vegetables, fruit trees and cereals. It is free of chloride and it is suitable for application in the sensitive plants to chloride. It increases the yield and quality of crops. Ingredients of fertinox 20-20-20 are Mono ammonium phosphate, Mono potassium phosphate, potassium Nitrate, sulfuate of potassium, urea and chelated Fe, Mn, Zn, Cu, B and Mo.



### **Notice:**

Do Not Mix it with calcium compounds.

### **Fertilizer Usages:**

**Cereals:** Depend on the soil test, apply at tillering or before filling stage 25-50 Kg per ha

**Fruit trees:** apply at early stage and fruit growth, 25 -50 kg per ha.

**Greenhouse Crops:** at growth stage when the plant growth is starting 15 -50 kg per ha. Depend on soil test.

**Notice:** please use it during growth stages in different replications.

### **Foliar applications:**

It is recommended to use as foliar in dose of 0.4-0.5 percent in the spray application for all crops for potassium deficiency treatment.



FERTINOX 5-5-40 +MgO+TE+Amino Acid

●● Fully soluble N-P-K +AA+Te

N	(P <sub>2</sub> O <sub>5</sub> )	(K <sub>2</sub> O)	Amino Acid	Fe	Mn	Zn	Cu	B	Mo
5	5	40	1	1000	500	500	500	200	50
%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm

**This compound is used for:**

- Supply of Nitrogen, Phosphorous and potassium plus amino acids and microelements for plants
- Suitable for fertigation and foliar applications
- Anti-stress and plant growth stimulants
- Enriched by microelements chelated by EDTA
- It is for final growth



1 kg





### **Fertinox 5-5-40:**

It is a fully soluble form of N, P and K sources for fertigation and foliar application. It is recommended to use it for all vegetables, fruit trees and cereals. It is free of chloride and it is suitable for application in the sensitive plants to chloride. It increases the yield and quality of crops. Ingredients of fertinox 5-5-40 are Mono ammonium phosphate, Mono potassium phosphate, potassium Nitrate, sulfate of potassium, urea and chelated Fe, Mn, Zn, Cu, B and Mo.



### **Notice:**

If you want to Mix it with any compounds please do the jar test.

### **Fertilizer Usages:**

**Cereals:** Depend on the soil test, apply at filling stage 25 -50 Kg per ha

**Fruit trees:** apply at late stage and fruit growth, 25 -50 kg per ha.

**Greenhouse Crops:** when the plant growth is in the final stage 15 -50 kg per ha. Depend on soil test.

**Notice:** please use it during growth stages in different replications.

### **Foliar applications:**

It is recommended to use as foliar in dose of 0.4-0.5 percent in the spray application for all crops for deficiency treatment.



# MEGAHUMATE BEN

Humic Liquid Acid

## ●● Fertilizer Composition

Zn	N	(K <sub>2</sub> O)	Humic Extract
0.05	1	6	12
%	%	%	%



## This compound is used for:

- Soil Improving
- Soil Biologic activity
- Root growth
- Soil pH buffering
- Nutrient Uptake facility



### **Megahumat:**

It is concentrated liquid humic acid extracted from high quality leonardite . it is consisted from different high and low molecular humic acid with perfect functional groups.

Studies showed that humic substances increase agronomic and horticultural crops by increasing fertilizer use efficiency and under plant stress such as salinity, drought, and alkaline conditions. It increase bioavailability of nutrients such as nitrogen, phosphorous and micronutrients. It increases water holding capacity of sandy soils.



### **Notice:**

If it is applied with fertilizer the uptake will be increase specially nitrogen and potassium.

### **Fertilizer Usages:**

**Cereals:** apply it after tillering stage or before booting 15 -20 liters per ha. It is possible to use it as seed treatment for better germination and root development of agronomic crops.

**Fruit trees:** apply after fruit setting or fruit growth 15-20 liters per ha

**Greenhouse Crops:** at early stage when the plant growth is starting.

Do Not Mix it with calcium and high acidic compounds.



Phosphate + Zinc

••• Fertilizer Composition

Zn	(P <sub>2</sub> O <sub>5</sub> )	N
2	30	5
%	%	%



**This compound is used for:**

- Plant starter compound
- Most available phosphate
- Increase Root growth
- Increase blooming and flowering in Plants



## Liquifos:

It is concentrated liquid Phosphorous fertilizer with nitrogen and zinc mix it with natural plant growth. The most available form of phosphate and zinc against the soil pH changes which is diffuses deeply in the soil faster than other phosphate fertilizers.

Combination of phosphorous and Zinc increase uptake and translocation of P and Zn in the plant and growth along with nitrogen.



## Notice:

Do Not Mix it with calcium and high acidic compounds.

## Fertilizer Usages:

**Cereals:** apply it before tillering stage or before booting 15 -20 liters per ha. It is possible to use it as seed treatment for better germination and root development of agronomic crops.

**Fruit trees:** apply before fruit setting, before fruit coloring or after harvesting. 15 -20 liters per ha.

**Greenhouse Crops:** at early stage when the plant growth is starting 15 -20 liters per ha.

## Foliar applications:

It is recommended to use as foliar in dose of 0.2-0.3 percent in the spray application for all crops for phosphorous deficiency treatment.



Foliar Micronutrients + Biostimulant + Amino Acid

••• Fertilizer Composition

Seaweed	Amino Acid	Mo	B	Cu	Zn	Mn	Fe
4	4	0.0005	0.5	1	2	1	2.5
%	%	%	%	%	%	%	%



**This compound is used for:**

- Alleviating of Micronutrients deficiencies
- Environmental Plant stress
- Fast Nutrient Uptake
- Chlorophyll synthesis
- Supply of aminoacids
- Plant Biostmulants



## **Micronova:**

Micronova designed as concentrated compound by micronutrients chelating agents (EDTA) , Aminoacids and Plant Biostimulants for quick reduction of environmental stress. It increases the chlorophyll and growth. It enhances the fruit colors formation and grain filling in cereals. It can be applied as foliar for all crops and ornamentals.



## **Notice:**

It is not recommended to mix with pesticides or fungicides. Also it is not compatible to mix with calcium fertilizers.

Carefully spray it on the leaves in the early morning when the temperature is not hot and in dry condition.

## **Fertilizer Usages:**

**Cereals:** spray it after tillering stage or before booting 3 -5 liters per ha

**Fruit trees:** spray it at bud break and after fruit setting with 3 liters per ha

**Greenhouse Crops:** spray it before blooming and after fruit setting 0.3 – 0.5 percent.



**Silicate( $\text{SiO}_2$  %10) + Potassium( $\text{K}_2\text{O}$  %10) + Organic Acid(%5)**

••• Fertilizer Composition

Si	( $\text{K}_2\text{O}$ )	Organic Acid
20	10	5
%	%	%



**This compound is used for:**

- Supply of Silicon and potassium very quickly to plants
- Effective formulation of foliar application
- Increase fruit quality, Firmness and shelf life
- Increase chlorophyll, Photosynthesis
- Increase tolerance to biotic and abiotic stress
- Enhance tolerance to water deficit condition





## **Silinox:**

It is concentrated liquid Silicon and Potassium nutrients in the form of Potassium silicate. SILINOX is a unique compound that assists leaf absorption very fast. It is also enriched with organic acids in order to freely move up and down-ward in plants quickly. Silicon and Potassium synergistically assist each other to uptake more than exclusively. SILINOX increase the organic acids in the plant and assist the uptake of micronutrients and phosphate in the harsh condition.



## **Notice:**

Do not mix it with phosphate, sulfate and calcium compounds.

Do not mix it with acidic materials.

Do not mix it with water when the level of sulfate is too high.

## **Fertilizer Usages:**

**Cereals:** spray it at booting stages and before blooming in the concentration of 0.2-0.3 percent specially on the rice.

**Fruit trees:** spray it after fruit setting or fruit growth and before harvest 2 or 3 times with concentration of 0.2 -0.3 percent.

**Greenhouse Crops:** spray it before deficiency occurs or in the fast growth stage 2 or 3 times with concentration of 0.2 -0.3 percent.

**Vegetables:** spray it on leafy and fruit vegetables when the crop is growing or when the fruit is growing and before fruit harvesting with concentration of 0.2 -0.3 percent.



Foliar K

••• Fertilizer Composition

(K <sub>2</sub> O)	(P <sub>2</sub> O <sub>5</sub> )
45	2
%	%



**This compound is used for:**

- Supply of Potassium
- Foliar application
- Fruit ripening and color and sugar formation
- Grain filling
- Quick treatment



### **Potanova:**

It is concentrated liquid Potassium fertilizer plus phosphorous for ripening and color formation in the fruit crops. It is compatible with other fertilizer except calcium fertilizers.

It is enriched by anti-stress compound and natural plant growth regulators for better quality of products.



### **Notice:**

Do not mix it with calcium compounds

### **Fertilizer Usages:**

**Cereals:** apply it before booting and filling stage , 15 -20 liters per ha.

**Fruit trees:** apply after fruit setting or fruit growth and color formation 15 -20 liters per ha

**Greenhouse Crops:** at crop ripening and at color formation, 10-15 liters per ha.

Do Not Mix it with calcium compounds. It is compatible with acidic or alkaline compounds



••• Fertilizer Composition

Zn	B
8	2
%	%



**This compound is used for:**

- Supply of Zinc and Boron very quickly
- Effective in pollination and fruit set
- Effective formulation foliar application
- Increaser fruit quality and shoot growth



## **ZIBONOX:**

It is concentrated liquid Zinc and Boron nutrients in the form of complex with ethanolamine for pollinations and fruit set or grain filling in cereals. Ethanolamine complex of Zinc and boron is a unique compound for Zibonox that assist leaf absorption very fast and also shoot deficiency. It is also enriched with sugar alcohols and amino acids in order to freely move up and down-ward in plants quickly. Zinc and Boron synergistically assist each other to uptake more than exclusively.



## **Notice:**

It is compatible to mix it with calcium compounds.

Do not use it in the case of Boron toxicity.

## **Fertilizer Usages:**

**Cereals:** spray it before blooming or flowering with the concentration of 0.3 percent.

**Fruit trees:** spray it at the early bud break or at fruit setting or fruit growth with concentration of 0.2 -0.3 percent.

**Greenhouse Crops:** spray it before deficiency occurs or in the fast growth stage 2 or 3 times with concentration of 0.2 -0.3 percent.

**Vegetables:** spray it on leafy and fruit vegetables when the crop is growing or when the fruit is growing with concentration of 0.2 -0.3 percent.

Note:



