Energy of Biotransformation!

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ARF Bio

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Dear Producer,

ARF was founded in 2015 in Ankara to operate in the renewable energy industry. Recognizing the huge opportunities in the solar, biomass and wind energy sectors in Türkiye, **ARF** started its investments with a 5.7 MW solar power plant in Konya's Kadınhanı district, Şahören village.

"Ödemiş Biogas Plant" is **ARF**'s second investment, which the company has made in the field of biomass under the name **ARF BIO**. All permissions required for the project have been obtained from EMRA and the relevant Ministries, including a Production License issued by EMRA (License no. EÜ/8067-1/04054 dated 29 September 2018).

Located in Izmir's Ödemiş district, Bozcayaka village, the project with 4,8 MWe installed capacity is one of Türkiye's plants with the highest installed capacity. Ödemiş Biogas Plant can generate an average of 36.000.000 kilowatt-hours of electricity, which is enough to meet the entire daily electrical energy needs of 35.000 people; and considering only domestic energy consumption, the plant will be capable of meeting the electrical energy needs of up to 10.000 households.

The conversion of wastes causing environmental pollution into end products with high efficiency, and especially the concepts of 'zero waste' and 'recycling' are indispensable in today's world. Biogas Technology, which enables energy generation from wastes of organic origin, increases soil productivity with organic and organomineral fertilizers and helps protect the environment.

ARF Ödemiş Biogas Plant protects the environment by generating energy from plant wastes and dairy cattle manure and adds life to soil with fertilizers produced therefrom. Animal and plant wastes, which pose a problem for human and environmental health, are processed in our biogas plant to produce thermal and electrical energy and convert the wastes into organic and organomineral fertilizers that are very beneficial for the soil.

We use HFA (humic-fulvic acids) and highly beneficial active nutrients in our solid and liquid fertilizers. Our products are free of elements that may cause salinity and lime in the soil, such as heavy metals, sodium, carbonate (CO₃) and bicarbonate (HCO₃). In calcareous soils with high pH values, most of the nitrogen is washed or volatilized from the soil. Most of the phosphorus is retained by lime and the benefit of potassium is reduced. The fertilizers by **ARF BIO** eliminate these problems and contribute to soil fertility. Our solid and liquid fertilizers have been registered per the regulations of the Ministry of Agriculture and Forestry subsequent to meticulous analysis, taking into account both the needs of farmers and the climate and soil characteristics. We engage in continuous R&D studies to add region-specific products to our fertilizer range.

We work toward adding economic value to our valuable agriculturists with high-efficiency fertilizers that will enable a high yield.

We wish all farmers a productive and profitable harvest.

ARF Bio

WHAT IS BIOGAS?

Biogas technology produces energy from organic waste materials. It also allows waste to be recycled into the soil. It is a renewable, environmentally friendly source of energy and fertilizer.



Biogas is a gas mixture which is produced as a result of fermentation of organic-based wastes in an oxygen-free environment (anaerobic). It is colorless and odorless, lighter than air, burns with a bright blue flame, and depending on the organic substances in its composition, it contains 40-70% methane, 30-60% carbon dioxide, 0,3% hydrogen sulfide and very small amounts of nitrogen and hydrogen.

HOW IS BIOGAS FORMED?

Biogas is mainly made of methane and carbondioxide gas obtained from the biodegradation of various organic matter in anaerobic digester tanks or bioreactors.





Complex organic polymers are decomposed into simple and soluble monomers by extracellular enzymes.

The molecules formed by hydrolysis are converted, resulting in the release of volatile fatty acids such as acetic acid and butyric acid.

Acetogenic bacterial groups convert the released volatile fatty acids into acetate, CO₂ and/or hydrogen.

Methane-producing bacteria use acetic acid/acetate, carbon dioxide and hydrogen to generate methane and carbondioxide.

PRODUCTION FLOW CHART

In our ARF ÖDEMİŞ Biogas plant, we both produce energy from organic-based plant and dairy cow feces and ensure the protection of environment by recycling the waste into the soil.







WHAT is **ORGANOMINERAL FERTILIZER**?

Fertilizers produced by combining and blending fermented fertilizers and chemical raw materials are called organomineral fertilizers.

The use of organomineral fertilizer is extremely important for soil fertility, plant health and productivity. Organomineral fertilizer, which has become widely used in our country, especially in the last six years, has entered the plant nutrition program of all agricultural products.

In organomineral fertilizers; there are sufficient elements such as nitrogen, phosphorus, potassium, zinc, sulfur and calcium. In addition to these elements, organic substances also contain nutritional minerals. For this reason, the use of organic fertilizer has gradually increased. Products grown with this fertilizers are completely natural and organic.

Why Should Organomineral Fertilizer Be Used?

Nearly 90% of the agricultural areas in our country are soils with poor organic matter content. The alkaline (basic) properties of our soil and the hardening of the soil depending on the soil and rainfall conditions make it difficult for plants to absorb nutrients from the soil and cause a decrease in productivity.

The use of pure chemical fertilizer increases the pH value (soil salt) of the soil to a certain extent, but the use of organic fertilizer alone is not sufficient to nourish the plants. While the use of pure organic fertilizer without additives causes weeds to appear in the soil, pesticide application is required to eliminate them. In addition, there is no water retention in the soil where organic fertilizer is not used, which reduces the fertility of the soil. In order to prevent these negativities and increase the fertility and abundance of the soil, it is necessary to use organomineral fertilizers.

What are the Benefits of Organomineral Fertilizer?

- It loosens clay soils and regulates the pH level in the soil.
- Thanks to its ability to retain more water in the soil, it largely protects the plant against drought.
- It improves soil structure and prevents erosion by increasing soil quality.
- By increasing soil aeration, it increases the root, stem and leaf development of plants.
- It increases the absorption of Carbon (C), Oxygen (O) and Hydrogen (H), which are important in the plant food chain.
- It greatly increases nutrient absorption from the root.
- It supports the revival and growth of the plant and fruit yield, and improves the quality of the fruits.
- It protects the plant by binding heavy metals & toxic residues in the soil and reduces the residues of harmful substances.
- It accelerates and increases the germination of seeds.
- It increases the effect of the fertilizers used.

- It applies all organic matter, humic-fulvic acid, nitrogen, phosphorus, potassium, sulfur, zinc & micro elements to the field.



Solid Organomineral Fertilizers



ARF BIO 8-21-0

SOLID ORGANOMINERAL NP FERTILIZER

GUARANTEED CONTENT	(W/W)
Organic Matter	20%
Total Nitrogen (N)	8%
Ammonium Nitrogen (N)	8%
Total Phosphorus Pentaoxide (P ₂ 0 ₅)	21%
Water-Soluble Phosphorus Pentaoxide (P_2O_5)	19 %
Total Zinc (Zn)	0,1%
Total (Humic+Fulvic) Acid	5%
Max. Chlorine (Cl)	2%
Max. EC	15 (dS/m)
Max. Moisture	20%
рН	5 - 7





ARF BIO 8-21-0 contains organic matter (OM) and humic-fulvic acids in addition to nitrogen (N) and phosphorus pentaoxide (P₂O₅). Promotes nutrient intake thanks to the humic-fulvic acids in its organic matter content.

50 kg

This product is a solid organomineral NP fertilizer obtained from the fermentation of animal manure and plant waste.

ARF BIO 8-21-0 + 1050₃

SOLID ORGANOMINERAL NP FERTILIZER

GUARANTEED CONTENT	(W/W)
Organic Matter	20%
Total Nitrogen (N)	8%
Ammonium Nitrogen (N)	8%
Total Phosphorus Pentaoxide (P ₂ 0 ₅)	21%
Water-Soluble Phosphorus Pentaoxide (P ₂ 0 ₅)	19 %
Total Sulfur Trioxide (SO ₃)	10%
Water Soluble Sulfur Trioxide (SO ₃)	0,1%
Total Zinc (Zn)	0,1%
Total (Humic+Fulvic) Acid	5%
Max. Chlorine (Cl)	2%
Max. EC	15 (dS/m)
Max. Moisture	20%
рН	5 - 7



ARF BIO 8-21-0+(10 SO₃) contains organic matter (OM), sulfur trioxide (SO₃), and humic-fulvic acids in addition to nitrogen (N) and phosphorus pentaoxide (P₂O₅). Promotes nutrient intake thanks to the humic-fulvic acids in its organic matter content. Sulfur content regulates soil pH in areas with high soil pH and lime and facilitates nutrient intake.

This product is a solid organomineral NP fertilizer obtained from the fermentation of animal manure and plant waste.

USAGE CHART

PLANTS	Usage QTY (kg/da)	
Rice	30 - 50 kg	
Wheat - Barley	30 - 40 kg	
Sunflower	25 - 40 kg	
Corn	40 - 60 kg	
Potato	50 - 75 kg	
Sugar Beet	40 - 60 kg	
Cotton	40 - 50 kg	
Onion	30 - 40 kg	
Greenhouse & Open Field Vegetables	40 - 60 kg	

PLANTS	Usage QTY (kg/da)	
Watermelon - Melon	40 - 60 kg	
Carrot - Radish	30 - 40 kg	
Grapes	40 - 50 kg	
Stone Fruit & Pome Fruit Trees, Citrus, Olive	1 - 4 kg / According to Tree Age	
Apple (According to age)	1 - 3 kg / Tree	
Hazelnut	2 - 5 kg / According to Tree Age	
Grapes - Strawberry - Artichoke	30 - 50 kg	

SPREAD ON TOP OF SOIL.

PLANTS	Usage QTY (kg/da)	PLANTS
Rice	30 - 50 kg	Watermelon - M
Wheat - Barley	30 - 40 kg	Carrot - Radish
Sunflower	25 - 40 kg	Grapes
Corn	40 - 60 kg	Stone Fruit & Pome F
Potato	50 - 75 kg	Citrus, Olive
Sugar Beet	40 - 60 kg	Apple (According to a
Cotton	40 - 50 kg	Hazelnut
Onion	30 - 40 kg	Grapes - Strawberry -
Greenhouse & Open Field Vegetables	40 - 60 kg	SPREAD ON TOP OF



ARF BIO 11-11-11 + 1050₃

SOLID ORGANOMINERAL NPK FERTILIZER

GUARANTEED CONTENT	(W/W)
Organic Matter	15%
Total Nitrogen (N)	11%
Ammonium Nitrogen (N)	11%
Total Phosphorus Pentaoxide (P ₂ O ₅)	11%
Water-Soluble Phosphorus Pentaoxide (P ₂ 0 ₅)	10%
Water-Soluble Potassium Oxide (K ₂ 0)	11%
Total Sulfur Trioxide (S0₃)	10%
Water-Soluble Sulfur Trioxide (SO ₃)	10%
Total Zinc (Zn)	0,1%
Total (Humic+Fulvic) Acid	5%
Max. Chlorine (Cl)	10%
Max. EC	15 (dS/m)
Max. Moisture	20%
РН	5 - 7





ARF BIO 11-11-11+(10 SO₃) contains organic matter (OM), sulfur trioxide (SO₃), and humic-fulvic acids in addition to nitrogen (N), phosphorus pentaoxide (P_2O_5), and potassium oxide (K_2O).

This product is a balanced solid organomineral NPK fertilizer with zinc and sulfur content obtained by a blend of nitrogen, phosphorus and potassium in equal proportions.

USAGE CHART

PLANTS	Usage QTY (kg/da)
Rice	30 - 50 kg
Wheat - Barley	30 - 40 kg
Sunflower	25 - 40 kg
Corn	40 - 60 kg
Potato	50 - 75 kg
Sugar Beet	40 - 60 kg
Cotton	40 - 50 kg
Onion	30 - 40 kg
Greenhouse & Open Field Vegetables	40 - 60 kg

PLANTS	Usage QTY (kg/da)	
Watermelon - Melon	40 - 60 kg	
Carrot - Radish	30 - 40 kg	
Grapes	40 - 50 kg	
Stone Fruit & Pome Fruit Trees, Citrus, Olive	1 - 4 kg / According to Tree Age	
Apple (According to age)	1 - 3 kg / Tree	
Hazelnut	2 - 5 kg / According to Tree Age	
Grapes - Strawberry - Artichoke	30 - 50 kg	

SPREAD ON TOP OF SOIL.

ARF BIO 6-16-6 + 1050₃

SOLID ORGANOMINERAL NPK FERTILIZER

GUARANTEED CONTENT	(W/W)
Organic Matter	15%
Total Nitrogen (N)	6%
Ammonium Nitrogen (N)	6%
Total Phosphorus Pentaoxide (P ₂ 0 ₅)	16%
Water-Soluble Phosphorus Pentaoxide (P ₂ 0 ₅)	14%
Water-Soluble Potassium Oxide (K ₂ 0)	6%
Total Sulfur Trioxide (SO₃)	10%
Water-Soluble Sulfur Trioxide (S0 ₃)	0,1%
Total Zinc (Zn)	0,1%
Total (Humic+Fulvic) Acid	5%
Max. Chlorine (Cl)	5%
Max. EC	15 (dS/m)
Max. Moisture	20%
рН	5 - 7

50 kg
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ARF BIO 6-16-6+(10 SO,) meets the nutrient needs of plants with organic matter, sulfur trioxide and humic-fulvic acids in addition to nitrogen, phosphorus and potassium.

Adheres to soil thanks to its nitrogen filler content so that overly wet or windy conditions won't blow or wash away your fertilizer.

PLANTS	Usage QTY (kg/da)	PLANTS	Usage QTY (kg/da)
Rice	30 - 50 kg	Watermelon - Melon	40 - 60 kg
Wheat - Barley	30 - 40 kg	Carrot - Radish	30 - 40 kg
Sunflower	25 - 40 kg	Grapes	40 - 50 kg
Corn	40 - 60 kg	Stone Fruit & Pome Fruit Trees,	1 - 4 kg / According to Tree Age
Potato	50 - 75 kg	Citrus, Olive	
Sugar Beet	40 - 60 kg	Apple (According to age)	1 - 3 kg / Tree
Cotton	40 - 50 kg	Hazelnut	2 - 5 kg / According to Tree Age
Onion	30 - 40 kg	Grapes - Strawberry - Artichoke	30 - 50 kg
Greenhouse & Open Field Vegetables	40 - 60 kg	SPREAD ON TOP OF SOIL.	



ARF BIO 12-15-5 + 10SO₃

SOLID ORGANOMINERAL NPK FERTILIZER

GUARANTEED CONTENT	(W/W)
Organic Matter	15%
Total Nitrogen (N)	12%
Ammonium Nitrogen (N)	12%
Total Phosphorus Pentaoxide (P ₂ O ₅)	15%
Water-Soluble Phosphorus Pentaoxide (P ₂ 0 ₅)	14%
Water-Soluble Potassium Oxide (K ₂ 0)	5%
Total Sulfur Trioxide (S0₃)	10%
Water-Soluble Sulfur Trioxide (SO ₃)	10%
Total Zinc (Zn)	0,1%
Total (Humic+Fulvic) Acid	5%
Max. Chlorine (Cl)	5%
Max. EC	15 (dS/m)
Max. Moisture	20%
РН	6 - 8



ARF BIO 12-15-5+(10SO₃) contains ammonium nitrogen, phosphorus pentaoxide (P₂O₅), potassium oxide (K₂O), sulfur trioxide (SO₃), organic matter (OM) and humic-fulvic acids.

Sulfur content regulates soil pH in areas with high soil pH and lime and facilitates nutrient intake.



ARF BIO 20-0-0 + 15SO₃

SOLID ORGANOMINERAL NITROGENOUS FERTILIZER

GUARANTEED CONTENT	(W/W)
Organic Matter	22%
Total Nitrogen (N)	20%
Ammonium Nitrogen (N)	5%
Urea Nitrogen (N)	14%
Organic Nitrogen	1%
Total Sulfur Trioxide (SO ₃)	15%
Water-Soluble Sulfur Trioxide (SO ₃)	14%
Total (Humic+Fulvic) Acid	7%
Max. Chlorine (Cl)	0,5%
Max. EC	3 (dS/m)
Max. Moisture	20%
рН	5 - 7



ARF BIO 20-0-0+(15SO₃) is a solid organomineral N fertilizer containing urea nitrogen, ammonium nitrogen, organic nitrogen, sulfur trioxide and humic-fulvic acids.

USAGE CHART

PLANTS	Usage QTY (kg/da)
Rice	30 - 50 kg
Wheat - Barley	30 - 40 kg
Sunflower	25 - 40 kg
Corn	40 - 60 kg
Potato	50 - 75 kg
Sugar Beet	40 - 60 kg
Cotton	40 - 50 kg
Onion	30 - 40 kg
Greenhouse & Open Field Vegetables	40 - 60 kg

PLANTS	Usage QTY (kg/da)
Watermelon - Melon	40 - 60 kg
Carrot - Radish	30 - 40 kg
Grapes	40 - 50 kg
Stone Fruit & Pome Fruit Trees, Citrus, Olive	1 - 4 kg / According to Tree Age
Apple (According to age)	1 - 3 kg / Tree
Hazelnut	2 - 5 kg / According to Tree Age
Grapes - Strawberry - Artichoke	30 - 50 kg

SPREAD ON TOP OF SOIL.

PLANTS	Usage QTY (kg/da)
Rice	30 - 50 kg
Wheat - Barley	30 - 40 kg
Sunflower	25 - 40 kg
Corn	40 - 60 kg
Potato	50 - 75 kg
Sugar Beet	40 - 60 kg
Cotton	40 - 50 kg
Onion	30 - 40 kg
Greenhouse & Open Field Vegetables	40 - 60 kg



ARF BIO NITRO

SOLID ORGANOMINERAL NITROGENOUS FERTILIZER

GUARANTEED CONTENT	(W/W)
Organic Matter	20%
Total Nitrogen (N)	24%
Ammonium Nitrogen (N)	4%
Urea Nitrogen (N)	20%
Total (Humic+Fulvic) Acid	5%
Max. Chlorine (Cl)	2%
Max. EC	15 (dS/m)
Max. Moisture	20%
рН	5 - 7



ARF BIO N

SOLID ORGANOMINERAL NITROGENOUS FERTILIZER

GUARANTEED CONTENT	(W/W)
Organic Matter	24%
Total Nitrogen (N)	24%
Urea Nitrogen (N)	23%
Organic Nitrogen	1%
Total (Humic+Fulvic) Acid	8%
Max. Chlorine (Cl)	0,5%
Max. EC	3 (dS/m)
Max. Moisture	20%
pН	5 - 7



ARF BIO N is a solid organomineral N fertilizer obtained from the fermentation of animal manure and plant waste that contains 23% urea nitrogen, 1% organic nitrogen, and 8% humic-fulvic acids.

ARF BIO NİTRO is a solid organomineral N fertilizer containing 20% urea nitrogen, 4% ammonium nitrogen, 20% organic matter and 5% humicfulvic acids.

50 kg

USAGE CHART

PLANTS	Usage QTY (kg/da)
Rice	30 - 50 kg
Wheat - Barley	30 - 40 kg
Sunflower	25 - 40 kg
Corn	40 - 60 kg
Potato	50 - 75 kg
Sugar Beet	40 - 60 kg
Cotton	40 - 50 kg
Onion	30 - 40 kg
Greenhouse & Open Field Vegetables	40 - 60 kg

PLANTS	Usage QTY (kg/da)
Watermelon - Melon	40 - 60 kg
Carrot - Radish	30 - 40 kg
Grapes	40 - 50 kg
Stone Fruit & Pome Fruit Trees, Citrus, Olive	1 - 4 kg / According to Tree Age
Apple (According to age)	1 - 3 kg / Tree
Hazelnut	2 - 5 kg / According to Tree Age
Grapes - Strawberry - Artichoke	30 - 50 kg

SPREAD ON TOP OF SOIL.

PLANTS	Usage QTY (kg/da)	PLANTS
Rice	30 - 50 kg	Watermelon - Melon
Wheat - Barley	30 - 40 kg	Carrot - Radish
Sunflower	25 - 40 kg	Grapes
Corn	40 - 60 kg	Stone Fruit & Pome Fruit Trees,
Potato	50 - 75 kg	Citrus, Olive
Sugar Beet	40 - 60 kg	Apple (According to age)
Cotton	40 - 50 kg	Hazelnut
Onion	30 - 40 kg	Grapes - Strawberry - Artichoke
Greenhouse & Open Field Vegetables	40 - 60 kg	SPREAD ON TOP OF SOIL.





Liquid Organomineral Fertilizers



ARF BIO **4-4-4**

LIQUID ORGANOMINERAL NPK FERTILIZER

GUARANTEED CONTENT	(W/W)
Organic Matter	10%
Total Nitrogen (N)	4%
Urea Nitrogen (N)	4%
Total Phosphorus Pentaoxide (P ₂ 0 ₅)	4%
Water-Soluble Phosphorus Pentaoxide (P_2O_5)	4%
Water-Soluble Potassium Oxide (K ₂ 0)	4%
Max. Chlorine (Cl)	0,5%
Max. EC	5 (dS/m)
рН	4 - 6



ARF BIO 5-0-5

LIQUID ORGANOMINERAL NK FERTILIZER

GUARANTEED CONTENT	(W/W)
Organic Matter	10%
Total Nitrogen (N)	5%
Urea Nitrogen (N)	5%
Water-Soluble Potassium Oxide (K ₂ 0)	5%
Max. Chlorine (Cl)	0,5%
Max. EC	5 (dS/m)
рН	6 - 8



ARF BIO 5-0-5 is a liquid organomineral NK fertilizer made of organic fertilizer obtained from plant waste of organic origin and dairy cattle manure fermented during biogas production, fortified with nitrogen and potassium.

N P K 1lt 5lt 20 lt

ARF BIO 4-4-4 is a liquid organomineral NPK fertilizer made of organic fertilizer obtained from plant waste of organic origin and dairy cattle manure fermented during biogas production, fortified with nitrogen, phosphorus and potassium.

PLACE, TIME & DOSAGE of USE

Product	Soil (L / da)	Foliar (cc/100 L water)	Application Time
Vegetables (Tomatoe, Pepper, Cucumber, Eggplant)	4-5 lt	100-250 cc	Apply 4-5 times from the 4-5 leaf stage until harvest.
Cotton, Corn, Soybean, Peanut, Rice, Sunflower, Tobacco	4-5 lt	200-300 cc	Apply 4-5 times before flowering and during fruit ripening.
Potato, Sugar Beet	4-5 lt	200-300 cc	Apply 1-2 times from tuberization until harvest.
Watermelon, Melon, Strawberry	4-5 lt	200-300 cc	Apply 4-5 times during flowering and fruit ripening.
Citrus	4-5 lt	200-300 cc	Apply 3-4 times at 20 days intervals after flowering.
Grain	4-5 lt	200-300 cc	After tillering and earing.
Grapes, Olives	4-5 lt	150-300 cc	Before flowering and during fruit growth.
Apple, Pear, Cherry, Sour Cherry, Peach, etc.	4-5 lt	200-300 cc	After flowering and during harvest time.
Cut Flower Cultivation	4-5 lt	200-300 cc	Apply every 15-20 days.

PLACE, TIME & DOSAGE of USE

Product	Soil (L / da)	Foliar (cc/100 L water)	Application Time
Vegetables (Tomatoe, Pepper, Cucumber, Eggplant)	4-5 lt	100-250 cc	Apply 4-5 times from the 4-5 leaf stage until harvest.
Cotton, Corn, Soybean, Peanut, Rice, Sunflower, Tobacco	4-5 lt	200-300 cc	Apply 4-5 times before flowering and during fruit ripening.
Potato, Sugar Beet	4-5 lt	200-300 cc	Apply 1-2 times from tuberization until harvest.
Watermelon, Melon, Strawberry	4-5 lt	200-300 cc	Apply 4-5 times during flowering and fruit ripening.
Citrus	4-5 lt	200-300 cc	Apply 3-4 times at 20 days intervals after flowering.
Grain	4-5 lt	200-300 cc	After tillering and earing.
Grapes, Olives	4-5 lt	150-300 cc	Before flowering and during fruit growth.
Apple, Pear, Cherry, Sour Cherry, Peach, etc.	4-5 lt	200-300 cc	After flowering and during harvest time.
Cut Flower Cultivation	4-5 lt	200-300 cc	Apply every 15-20 days.



ARF BIO 8-5-0

LIQUID ORGANOMINERAL NP FERTILIZER

GUARANTEED CONTENT	(W/W)
Organic Matter	10%
Total Nitrogen (N)	8%
Urea Nitrogen (N)	8%
Total Phosphorus Pentaoxide (P ₂ 0 ₅)	5%
Water-Soluble Phosphorus Pentaoxide (P ₂ 0 ₅)	5%
Max. Chlorine (Cl)	0,5%
Max. EC	5 (dS/m)
pН	3 - 5



1lt 5lt 201t

ARF BIO 8-5-0 is a liquid organomineral NP fertilizer made of organic fertilizer obtained from plant waste of organic origin and dairy cattle manure fermented during biogas production, fortified with nitrogen and phosphor.

PLACE, TIME & DOSAGE of USE

Product	Soil (L / da)	Foliar (cc/100 L water)	Application Time
Vegetables (Tomatoe, Pepper, Cucumber, Eggplant)	4-5 lt	100-250 cc	Apply 4-5 times from the 4-5 leaf stage until harvest.
Cotton, Corn, Soybean, Peanut, Rice, Sunflower, Tobacco	4-5 lt	200-300 cc	Apply 4-5 times before flowering and during fruit ripening.
Potato, Sugar Beet	4-5 lt	200-300 cc	Apply 1-2 times from tuberization until harvest.
Watermelon, Melon, Strawberry	4-5 lt	200-300 cc	Apply 4-5 times during flowering and fruit ripening.
Citrus	4-5 lt	200-300 cc	Apply 3-4 times at 20 days intervals after flowering.
Grain	4-5 lt	200-300 cc	After tillering and earing.
Grapes, Olives	4-5 lt	150-300 cc	Before flowering and during fruit growth.
Apple, Pear, Cherry, Sour Cherry, Peach, etc.	4-5 lt	200-300 cc	After flowering and during harvest time.
Cut Flower Cultivation	4-5 lt	200-300 cc	Apply every 15-20 days.

Energy of Biotransformation!



WHAT IS ORGANIC FERTILIZER?

Organic fertilizer is the fertilizer obtained as a result of passing vegetal and animal wastes through certain processes, which increases the physical, chemical and biological productivity of the soil and provides the necessary minerals for the nutrition of the plants.

Chemical fertilizers applied for many years, intensive tillage, erosion and pesticides reduce the organic matter in the soil. The use of organic fertilizers has become widespread in order to remove the fatigue caused by these factors from the soil and thus reduce the impact on people and animals, and has become the focus of attention recently with the changes in the climate.

Why Should Organic Fertilizer Be Used?

- It improves the physical, chemical and biological properties of the soil by increasing the organic matter rate in the soil.
- It accelerates plant growth by increasing the nutritional value of the soil.
- It balances the pH value of the soil.
- It reduces the need for irrigation.
- It supports the root development of the plant and accelerates the germination of the seed.
- It can be used throughout the plant development period.
- It increases the quality rate of the product.

- Organic fertilizer accelerates microbiological activity in the soil, increasing its structure, aeration & water retention capacity.





Solid Organic Fertilizers



ARF BIO PLUS

FERMENTED ORGANIC FERTILIZER

GUARANTEED CONTENT	(W/W)	
Organic Matter	50%	
Total Nitrogen (N)	3%	
Total Phosphorus Pentaoxide (P_2O_5)	1%	
Water-Soluble Potassium Oxide (K ₂ 0)	1%	
Total (Humic+Fulvic) Acid	15%	
Max. Moisture	35%	
Max. EC	3 (dS/m)	
На	6,5 - 8,5	



ARF BIO

FERMENTED ORGANIC FERTILIZER

GUARANTEED CONTENT	(W/W)
Organic Matter	60%
Total Nitrogen (N)	1%
Total Phosphorus Pentaoxide (P ₂ 0 ₅)	1%
Total (Humic+Fulvic) Acid	20%
Max. Moisture	35%
Max. EC	3 (dS/m)
рН	6,5 - 8,5



ARF BIO is an organic fertilizer obtained from plant waste of organic origin and dairy cattle manure fermented during biogas production. Used as organic base fertilizer during soil preparation or planting.

ARF BIO PLUS is an organic fertilizer obtained from plant waste of organic origin and dairy cattle manure fermented during biogas production that contains 50% organic matter and 15% humic-fulvic acids. This product is used as organic base fertilizer during soil preparation or planting.

50 kg

USAGE CHART: Fields Mentioned Below

PLANTS	Usage QTY (kg/da)
Open Field Vegetables	50-100 kg/da
Greenhouse Vegetables	100-200 kg/da
Watermelon, Melon, Raspberry	100-150 kg/da
Strawberry	50-100 kg/da
Tea, Tobacco	120-200 kg/da
Wheat, Barley, Rice, Sunflower, Canola, Oat, Lentil, Chickpea, Bean, Soybean	50-100 kg/da
Potato, Sugar Beet, Onion, Radish, Carrot	80-120 kg/da
Cotton, Corn, Sorghum, Sesame, Nigella	50-100 kg/da
Green Field / Pitch Grass Cover (at the time of laying soil)	150-200 kg/da

PLANTS	Usage QTY (kg/da)
Landscaping and gardening, Cut Flower Cultivation	100-150 kg/da
Soil Reclamation and Improvement	100-150 kg/da
Grapes (Vineyard)	1-3 kg/bed
Banana	2-4 kg/According to Tree Age
Stone Fruit & Pome Fruit Trees, Grapes, Apple	1-5 kg/According to Tree Age
Almond, Walnut, Hazelnut, Pistachio	1-5 kg/According to Tree Age

USED AS ORGANIC BASE FERTILIZER DURING SOIL PREPARATION or PLANTING.

USAGE CHART: Fields Mentioned Below

PLANTS	Usage QTY (kg/da)	PLANTS	Usage QTY (kg/da)
Open Field Vegetables	50-100 kg/da	Landscaping and gardening,	100-150 kg/da
Greenhouse Vegetables	100-200 kg/da	Cut Flower Cultivation	
Watermelon, Melon, Raspberry	100-150 kg/da	Soil Reclamation and Improvement	100-150 kg/da
Strawberry	50-100 kg/da	Grapes (Vineyard)	1-3 kg/bed
Tea, Tobacco	120-200 kg/da	Banana	2-4 kg/According to Tree
Wheat, Barley, Rice, Sunflower, Canola, Oat, Lentil, Chickpea, Bean, Soybean	50-100 kg/da	Stone Fruit & Pome Fruit Trees, Grapes, Apple	1-5 kg/According to Tree
Potato, Sugar Beet, Onion, Radish, Carrot	80-120 kg/da	Almond, Walnut, Hazelnut, Pistachio	1-5 kg/According to Tree
Cotton, Corn, Sorghum, Sesame, Nigella	50-100 kg/da		
Green Field / Pitch Grass Cover (at the time of laying soil)	150-200 kg/da	USED AS ORGANIC BASE FERTILIZ	





Liquid Organic Fertilizers



ARF BIO LIQUID & ORGANIC

LIQUID ORGANIC FERTILIZER of PLANT & ANIMAL ORIGIN

GUARANTEED CONTENT	(W/W)
Organic Matter	15%
Organic Carbon	6%
Total Nitrogen (N)	2%
Water-Soluble Potassium Oxide (K ₂ 0)	2%
Max. EC	5 (dS/m)
рН	4,5 - 6,5



ARF BIO FERMENTED & LIQUID

FERMENTED LIQUID ORGANIC FERTILIZER

GUARANTEED CONTENT	(W/W)
Organic Matter	5%
Max. EC	5 (dS/m)
рН	7 - 9



ARF BIO FERMENTED & LIQUID is a liquid organic fertilizer obtained from plant waste of organic origin and dairy cattle manure fermented in an anaerobic environment during biogas production.

PLACE, TIME & DOSAGE of USE

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Product	Soil (L / da)	Application Time
Greenhouse Vegetables: Tomato, Pepper, Eggplant, Cucumber, etc.	100-150 lt	Apply with every watering at intervals of 10 days, from first watering until harvest.
Open Field Vegetables: Tomato, Pepper, Eggplant, Cucumber, etc.	150-200 lt	before harvest.
Cauliflower, Leek, Spinach, Romaine Lettuce, Curly Lettuce, Iceberg Lettuce, Parsley etc.	150-200 lt	Application recommended with each watering.
Tea	250-300 lt	Apply 10-15 days before sprouting.
Strawberry	150-200 lt	Apply with every watering from planting to end of harvest.
Grapes	150-200 lt	Apply at first watering, before bud break, during flowering and development of grapes.
Melon, Watermelon, Zucchini	150-200 lt	Application recommended with each watering.
Fruit Trees and Citrus (Stone Fruit & Pome Fruit) Olive, Hazelnut, Pistachio, Almond, Walnut	200-250 lt	Apply 4 times (at the time of foliation, before bud break and flowering, at fruit formation, and 20 days before harvest).
Sunflower, Corn, Cotton, Tobacco, Beet, Potato, Carrot, Radish, Onion	200-250 lt	Application recommended with each watering.
Rice, Sesame, Sorghum	200-250 lt	Apply at soil preparation or first watering - before tillering and during earing.
Soy, Lentil, Bean, Chickpea	150-200 lt	Apply 3-5 times with each watering.
Wheat, Barley	150-200 lt	1st Application: Together with weed control (herbicides). 2nd Application: Before tillering.
Cut Flower Cultivation (Rose, Carnation)	100-200 lt	Apply 3-4 times during the season starting from offshoot.
Green Fields (at planting and for maintenance)	100-150 lt	At first watering until end of watering.
Landscaping & Park and Garden Arrangement	250-300 lt	Whenever deemed necessary.



ARF BIO LIQUID & ORGANIC is a liquid organic fertilizer obtained from plant waste of organic origin and dairy cattle manure fermented in an anaerobic environment during biogas production.

PLACE, TIME & DOSAGE of USE

Product	Soil (L / da)	Foliar (cc/100 L water)	Application Time
Vegetables (Tomatoe, Pepper, Cucumber, Eggplant)	4-5 lt	100-250 cc	Apply 4-5 times from the 4-5 leaf stage until harvest.
Cotton, Corn, Soybean, Peanut, Rice, Sunflower, Tobacco	4-5 lt	200-300 cc	Apply 4-5 times before flowering and during fruit ripening.
Potato, Sugar Beet	4-5 lt	200-300 cc	Apply 1-2 times from tuberization until harvest.
Watermelon, Melon, Strawberry	4-5 lt	200-300 cc	Apply 4-5 times during flowering and fruit ripening.
Citrus	4-5 lt	200-300 cc	Apply 3-4 times at 20 days intervals after flowering.
Grain	4-5 lt	200-300 cc	After tillering and earing.
Grapes, Olives	4-5 lt	150-300 cc	Before flowering and during fruit growth.
Apple, Pear, Cherry, Sour Cherry, Peach, etc.	4-5 lt	200-300 cc	After flowering and during harvest time.
Cut Flower Cultivation	4-5 lt	200-300 cc	Apply every 15-20 days.





Classic Fertilizers



ARF UREA %46 (N)

IMPORTED CHEMICAL FERTILIZER

GUARANTEED CONTENT	(w/w)
Total Urea Nitrogen (N)	46%



ARF DAP 18-46-0

IMPORTED CHEMICAL NP FERTILIZER

GUARANTEED CONTENT	(W/W)
Total Nitrogen (N)	18%
Ammonium Nitrogen (N)	18%
Neutral Ammonium Citrate & Water Soluble Phosphorus Pentaoxide (P205)	46%
Water-Soluble Phosphorus Pentaoxide (P ₂ 0 ₅)	41 %



ARF DAP 18-46-0; DAP (Diammonium Phosphate) fertilizer is a two-nutrient base fertilizer with the highest phosphorus content with 18% Ammonium Nitrogen and 46% Phosphorus (P_2O_5). The phosphorus it contains is completely soluble in water and in a form (P_2O_5) that can be absorbed by the plant. Since nitrogen is in ammonium form, there is no loss of nitrogen from the soil due to irrigation and rainfall.

It should be applied to the depth of the seed or root, before or during sowing-planting. It is a suitable fertilizer for field crops, fruit trees, industrial plants & vegetables, and is successful in product groups in soils where phosphorus deficiency is common.

N	EC FERTILIZER
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ARF UREA %46 (N) is the fertilizer with the highest nitrogen content among chemical fertilizers, with 46% nitrogen content. Although it dissolves quickly in water, it is not easily absorbed by plants. In order for nitrogen to become useful, it must be converted into Ammonium Nitrogen (NH₄) by urea bacteria in the soil.

50 kg

It can be used as base and top fertilizer on all plants. It can be applied before planting, with planting, by subsoil or above ground application. If application will be made by scattering on the soil surface, attention should be paid to irrigation and air temperature. High temperatures may cause the fertilizer to evaporate and lose nitrogen.



OUR CERTIFICATES



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	ÇALIŞMA ONAY BELGESİ
Tosisin Adı	ARF Bin Tenilenebilir Easeji Cratin A.Ş.
Tosisin Adresi	Boxenyola Känne Evleri No:365/4-367 Ödandy İZMİR Tel: 01124428283 - 03124428216 E-posts: omstafe, resr@hubadLaou
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