

FAST-GROW *plus*

MPE

Marine plant extract

Water soluble Fertilizers
of high nutritional value

AA

Amino acids

*They maximize
the crop yields
and the profits
of the farmers*

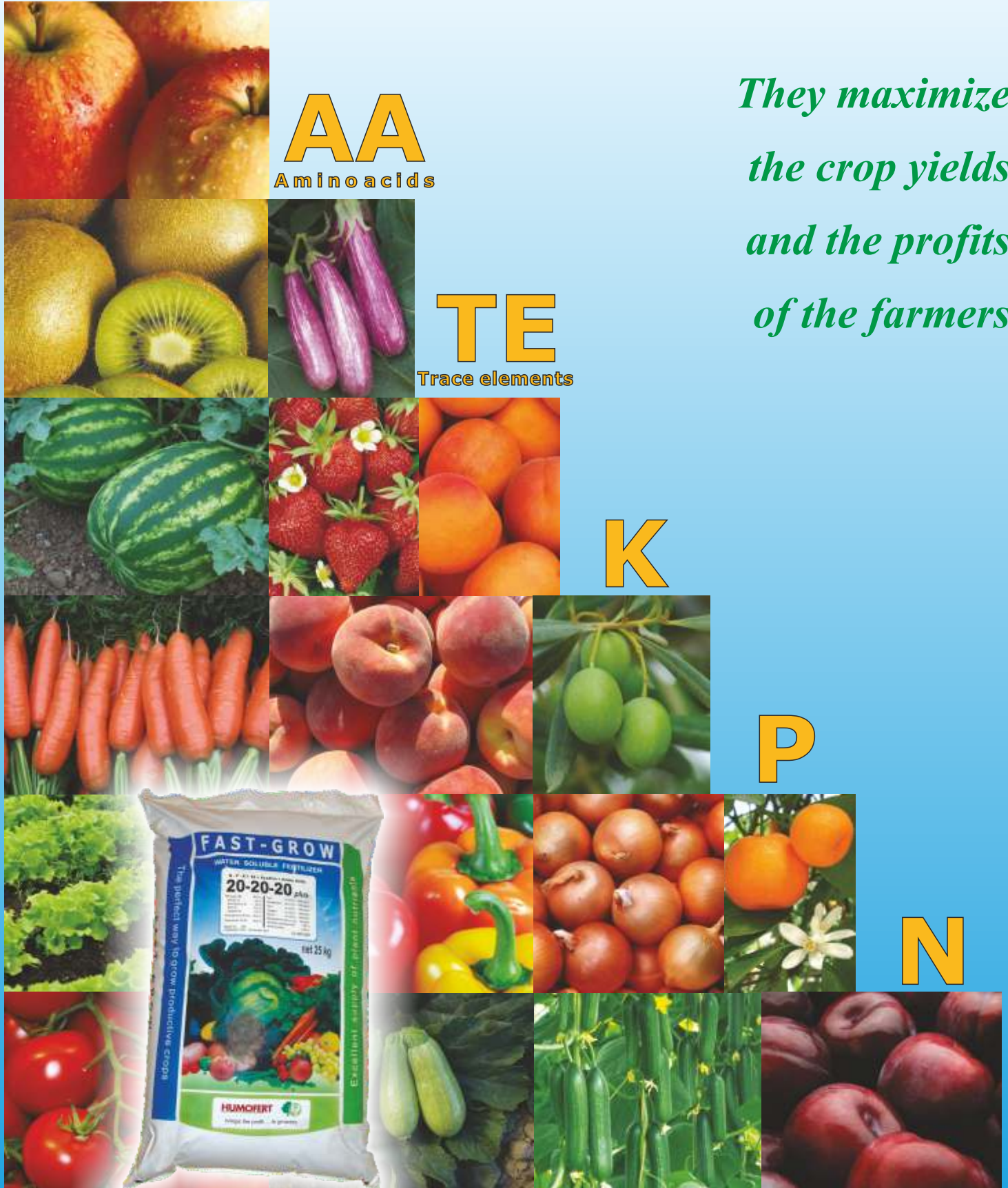
TE

Trace elements

K

P

N



FAST-GROW plus

The new series of **FAST-GROW plus** fertilizers has been created in order to provide to the grower water soluble macronutrients (N, P, K) combined with chelated trace elements, L-amino acids and the top quality marine plant extract Acadian. The fertilizers of this series come from raw materials of high purity that do not contain impurities and heavy metals. **FAST-GROW plus** fertilizers dissolve perfectly in the water and do not create sediment in the tank minimizing in this way the probability of causing problems from possible clogging

of irrigation lines, spraying systems and fertigation systems. **FAST-GROW plus** fertilizers are characterized by homogeneity and high standard and stable quality which is certified through a series of continuous qualitative controls throughout the production process. They can be applied through any fertigation system and also through foliar sprays. Since they do not contain chlorine, they have a low phytotoxicity index and are easily absorbed both by the roots and the leaves of the plants and trees.

Water soluble fertilizers **FAST-GROW plus** are available in various N-P-K types combining different proportions of nitrogen, phosphorus and potassium in order to cover the nutritional needs of all crops. In addition, they give the grower the option to select the most appropriate type of fertilizer for its crop according to the unique characteristics of the soil, the nutritional needs of the plants and their growth stage.



The series of **FAST-GROW plus** fertilizers contains 1% marine plant extract produced by marine plants of the genus *Ascophyllum nodosum* which are collected from the clear and rich in nutrients waters of the North Atlantic Ocean. The addition of marine plant extract in the **FAST-GROW plus** fertilizers enriches their nutrient value with natural plant growth promoting substances (Auxins, Gibberellins, Cytokinins and Betains), natural chelating factors (Alginate acid, Mannitol and Laminarin) and also macro- and micro-nutrients.

Marine plant extract enhances the growth of plants throughout their entire growing season, contributes to the creation of vigorous plants with voluminous root system and fortifies their resistance against various stressful factors (e.g. salinity). Furthermore, it contributes to the increase of the crop yield and to obtaining harvest with improved qualitative characteristics. University studies and field trials have shown that the combined application of water soluble fertilizers with marine plant extract assists in the uptake and assimilation of nutrients by the plants.

Another advantage of **FAST-GROW plus** fertilizers is the fact that they contain 2% L-amino acids. Amino acids are capable of chelating macro- and micro-nutrients and converting them in forms readily available to the plants. Furthermore, amino acids facilitate the transport of nutrients inside the plants, also assist plants in resisting stress caused by various biotic and abiotic factors, reduce nutrient leaching and promote in general the cell functions which take place throughout the various growth stages. The combination of L-amino acids with the contained in **FAST-GROW plus** fertilizers nutrients increases the efficiency of fertilizers leading to the improvement of the crop yield and to the increase of the profits of the farmer.

Apart from the Macronutrients (N, P, K), the Marine plant Extract and the Amino acids, **FAST-GROW plus** fertilizers contain in a very high concentration EDTA chelated micronutrients. All **FAST-GROW plus** fertilizer types contain 1.000 ppm of Iron, 500 ppm of Zinc, 500 ppm of Manganese and 500 ppm of Copper in chelated form. This is the reason **FAST-GROW plus** fertilizers are easily assimilated

by the plant tissues. Additionally **FAST-GROW plus** fertilizers contain 200 ppm Boron and 20 ppm Molybdenum in Sodium salt form. All these micronutrients complete the total package of nutrients that are essential for the proper plant nutrition and contribute significantly to the assimilation of nitrogen, phosphorus and potassium. Therefore **FAST-GROW plus** fertilizers are the favourite food of your plants.

20 - 20 - 20

20-20-20 is the most popular fertilizer type. It is a balanced fertilizer meaning that it contains the main nutrients (Nitrogen, Phosphorus and Potassium) in the same proportion. Therefore it can be used in almost all crops and in all growth stages.

19 - 19 - 19

The type 19-19-19 is the economic type of balanced fertilizers. It can be applied in a wide range of crops and its application is recommended from the beginning of the crop up to the harvest.

30 - 10 - 10

30-10-10 fertilizer is the nitrogen type of the **FAST-GROW plus** series. Nitrogen is essential for the rapid and healthy growth of plants. In the growth stage of a crop or when we intend the growth of the upper part of plants, nitrogen fertilizers are necessary without limiting the necessity of its application in following stages.

10 - 50 - 10

The type 10-50-10 belongs to the high phosphate fertilizers which assist greatly in the growth and the establishment of the root system in the ground and also in the stimulation of rooting. 10-50-10 fertilizer is recommended to be applied in cuttings, seedlings, new plantations and initial growth stages.

15 - 30 - 15

Phosphorus type 15-30-15 is recommended to be applied when we intend to stimulate the growth of seedlings or to achieve the good growth of the root system. In addition, it has very good effect in the stage of bloom, since phosphorus benefits the formation of flowers in almost all crops.

10 - 20 - 30

10-20-30 is the phosphate-potassium type of **FAST-GROW plus** fertilizers. Potassium improves the qualitative characteristics of fruits (flavor, scent, color) while phosphorus assists in their sizing. It is applied usually just prior to the initiation of fruiting and until the completion of harvest.

6 - 12 - 36 + 2% MgO

The type 6-12-36 + 2% MgO is the high potassium type of the series **FAST-GROW plus** fertilizers. It combines all the properties of the potassium fertilizers along with the properties of magnesium. Magnesium belongs to the chlorophyll molecule and for that reason it promotes plant photosynthesis ensuring their proper growth.

12 - 8 - 24 + 4% MgO

12-8-24 + 4% MgO is a potassium fertilizer with high content in magnesium. Potassium causes plants to produce sugars which offer them enhanced tolerance against frost. Furthermore magnesium promotes plant growth and keeps them greener and healthier.

15 - 10 - 30 + 2% MgO

The type 15-10-30 + 2% MgO offers crops potassium for the stage of maturity and nitrogen for stable growth of young shoots that are essential for continuous production. Magnesium improves the qualitative characteristics of the harvest adding value to the crop yield.

	20-20-20	19-19-19	30-10-10	28-14-14	10-50-10	15-30-15	10-20-30	15-10-30 +2% MgO	12-8-24 +4% MgO	6-12-36 +2% MgO
Nitrogen	20%	19%	30%	28%	10%	15%	10%	15%	12%	6%
Nitrate nitrogen	4.5%	3.7%	2.8%	2.1%	1.4%	4.2%	6.4%	7.0%	5.7%	5.7%
Ammonium nitrogen	4.0%	6.0%	5.7%	1.7%	8.3%	10.5%	3.3%	0.9%	5.7%	0.0%
Urea nitrogen	11.2%	9.0%	21.2%	23.9%	0.0%	0.0%	0.0%	6.8%	0.3%	0.0%
Organic nitrogen	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%
Phosphorus	20.0%	19.0%	10.0%	14.0%	50.0%	30.0%	20.0%	10.0%	8.0%	12.0%
Potassium	20.0%	19.0%	10.0%	14.0%	10.0%	15.0%	30.0%	30.0%	24.0%	36.0%
Magnesium	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0%	4.0%	2.0%
Sulphur	0.0%	2.5%	2.0%	0.0%	0.0%	2.5%	2.1%	1.9%	8.8%	4.3%
Trace elements	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%
Amino acids	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Acadian	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%

All the types contain the following trace elements: **Fe 1000 ppm, Zn 500 ppm, Mn 500 ppm, Cu 500 ppm, B 200 ppm, Mo 20 ppm**

Note: Additional types of fertilizers are available upon request



***For every crop and every growth stage,
there is the appropriate type of Fast Grow plus
fertilizer that will cover the needs of your plants***

General Application Rates

Fertigation: 10-30 kg per ha
Foliar spray: 2 kg per 500 l of water

PACKAGES

25 kg PE bag	2 kg Al Foil Bag	1 kg Al Foil Bag
Pallet of 40 bags	Box of 10 bags	Box of 20 bags

		20-20-20	19-19-19	30-10-10	28-14-14	10-50-10	15-30-15	10-20-30	15-10-30 +2% MgO	12-8-24 +4% MgO	6-12-36 +2% MgO
pH	1 %	6.45	6.78	7.38	6.56	4.33	6.37	3.92	5.87	6.01	3.55
	10 %	6.32	6.60	7.66	6.43	4.04	6.17	3.83	5.61	5.62	3.45
Conductivity	1.0 g/l	0.96	1.20	1.01	0.56	1.29	1.50	1.64	1.93	1.48	1.30
	10.0 g/l	7.37	8.89	7.40	4.76	8.89	12.80	10.89	10.20	12.00	10.76

Produced by

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