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BIOS NP 4 - 12

Organo-mineral fertilizer NP (Ca) with Iron (Fe) and Zinc (Zn)

N	P	K	CaO	Fe	Zn	C	U.F.
4	12	0	20	0,5	0,1	17	53,6

Conventional

STRUCTURAL STRENGTH INDUCER

tectosilicates selected inside

It's an organo-mineral fertilizer NP (Ca) with Iron and Zinc. Made of different noble (animals and vegetables) matrices and prepared specifically to facilitate the well-meaning action of humic and fulvic acids in the ground. The presence of both **Calcium** and **Phosphorus** (normally not miscible), available in a balanced manner, make that product excellent for a basal dressing.

Created to stimulate the fast and strong growth of the root structure and to give strength and resistance to the aerial part of the plants, it strengthens the plants during the raising stage, limiting and preventing bending, breakups, stimulating the plant to be less easily blown over, under the pressure of bad whether conditions. **BIOS NP 4 - 12** is the best at the lower price, thanks to its specific composition and the right balance between its constituent elements.

Iron obtained from ferrous sulphate pushes the pH towards acidity, making available again all the blocked nutritional elements in the soil; the product can also influence the plant's colouring since the beginning; moreover, it can act as a catalyst for the breathing processes and the formation of chlorophyll molecules. The active forms of the iron are complex organic compounds like some proteins, lipids and enzymes, particularly abundant in fresh leaves.

Zinc facilitates the Phosphorus absorption, works as a catalyst in redox reactions within the cells, is involved in the formation of chlorophyll and the hormones which regulate the growth of the plants. It's fundamental for the protein synthesis, works as a ribosome stabilizer as they are required for the formation of polypeptides from single amino acids. It's necessary for the relaxation of cells. Within the plant, where it's always located in very tiny quantities, it's an extremely variable component. It has an antagonistic action against Iron while is often synergic with Copper and Magnesium.

COMPOSITION			
Nitrogen	(N)	total	4 %
of witch: Nitrogen	(N)	organic	3 %
of witch: Nitrogen	(N)	ureic	1 %
Phosphoric anhydride	(P_2O_5)	soluble only in mineral acids (P_2O_5 total)	12 %
Phosphoric anhydride	(P_2O_5)	soluble in neutral ammonium citrate in water	3 %
Carbon	(C)	biological origin	17 %
Calcium oxide	(CaO)	total	20 %
Iron	(Fe)	soluble in water	0,5 %
Zinc	(Zn)	soluble in water	0,1 %

RECOMMENDED DOSES - Kg./Ha			
Tree crops	600	-	1.200
Horticultural crops (open field)	300	-	900
Greenhouses	700	-	1.500

The recommended doses have indicative value and should be increased or decreased considering the follow: the pedoclimatic characteristic of the zone of interest, fertility, water retention, structure of soil, cultural variety, the equipment in use and finally the experience of the agricultural entrepreneur. In any case it is recommended to avoid concentrations of the product next to the seed and/or to the roots.

BIOS NP 4 -12

PACKAGING	
Bags	Kg. 25 (n° 60/pallet)
Big Bags	Kg. 500/each
Form	Powder or mini pellets (die ø 3,5 mm.)

RAW MATERIALS
ORGANIC COMPONENTS
Mix of nitrogenous organic fertilizer, Mix of organic fertilizer NP
MINERAL COMPONENTS
Pliable natural phosphate, Iron's salt (sulphate), Urea, Zinc's salt (sulphate)

Restrictions on the use - Art. 11, paragraph 1, letter c) of the Reg.CE/1069/2009: The feeding of farmed animals with herbage, assumed through the pasture or administered after having been picked up, coming from farmland where organic fertilizers or soil improvers different from dung have been applied, unless the pasture or the cut of grass takes after a waiting period - at least 21 days, facing to guarantee a suitable risk assessment for the public and animal health.

The suitable analytical data on the wrappings follow the prescriptions of the D.L.gs n. 75 of 29/04/2010 and following changes and /or integrations. All the data provided in the present publication are indicative, BIOS s.r.l. the right reserves its rights to modify them without obligation of warning.

ORGAN-MINERAL FERTILIZERS NP

PROSPERITY IN THE LAND