Nipponfert®
fertilizantes
Agricultura de alta performance

Premium fertilizer intended for high productivity crops

FORMULA

PREMIUM BIOFERTILIZER

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eBook

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Rodovia BR 376, S/N | Lote 211 A/B REM 03
KM 114,5 | Gleba Anhumai | Alto do Paraná/PR
Zip Code 87750-000 | Brazil

CONSULTED BIBLIOGRAPHY

Brazilian Organ - Embrapa Solos

Soil Fertility and Plant Nutrition
Author: COAMO, COODETEC

Fertilization and Liming Manual for the state of Paraná/Brazil
Author: Volnei Pauletti / Antonio Carlos Vargas Motta

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Bags and Sacks

Our fertilizers are available in 50kg bags and 1000kg big bags.

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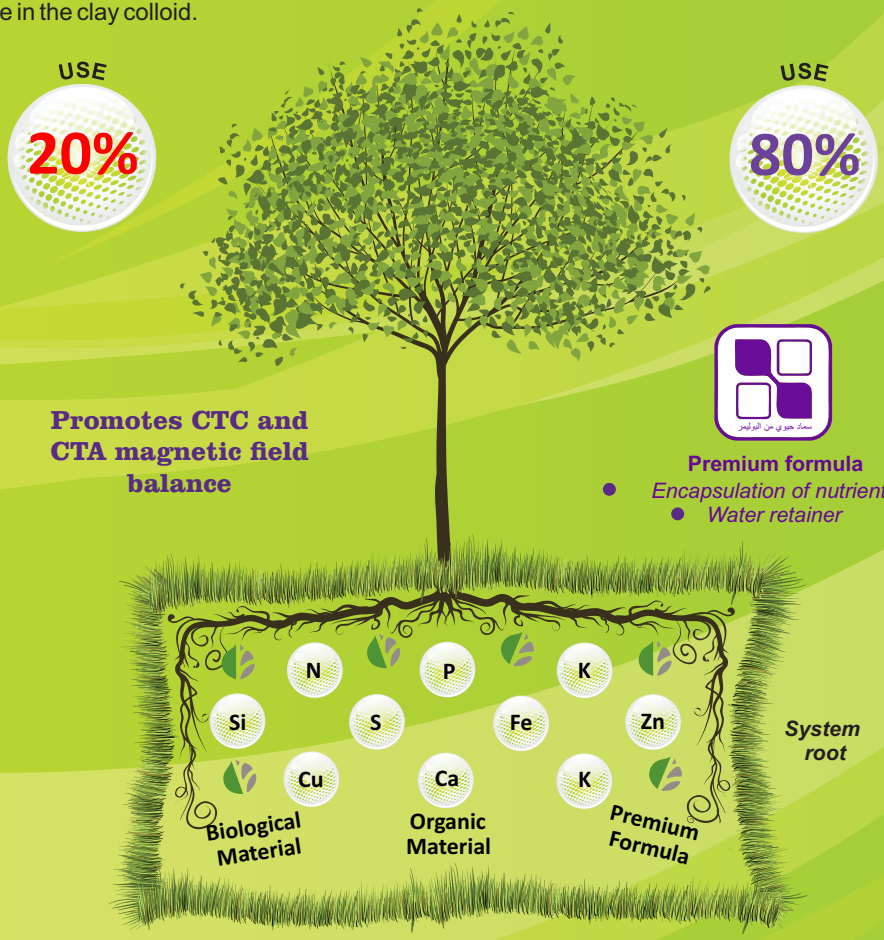
Main difference between Mineral Fertilizer and Nipponfert Fertilizer:

Mineral fertilizer

Mineral fertilizer uses **only 20% of the nutrients** from the large amount of fertilizer thrown onto the earth, the rest of the nutrients volatilize, leach and settle in the clay colloid.

Nipponfert fertilizer

Nipponfert fertilizer uses **80% of the nutrients**, throwing even a smaller amount of fertilizer onto the ground.



MICRONUTRIENTS

NIPPONFERT

All **NIPPONFERT** formulations contain micronutrients in balanced amounts. The power present in the organic matter of our fertilizers retains metallic nutrients, mainly iron, copper, zinc and manganese, thus guaranteeing their availability for the roots.

MACRONUTRIENTS

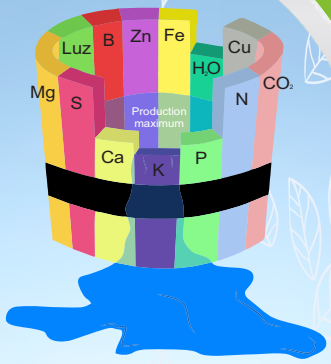
NIPPONFERT

NIPPONFERT fertilizers contain the primary macronutrients **N-P-K** and the secondary macronutrients **Ca-Mg-S**. The element Ca, in addition to nourishing the plant, helps in the balance against the acidity caused by the chemical fertilizer.

FERTILIZING

NIPPONFERT

In fertilization, the best results come when you follow nature's recipe, that is, when there is a natural fall of the leaves, owers, branches and fruits, which form a green covering over the soil surface known as the organic horizon. In the decomposition of the vegetal mass, there is a significant presence of well-developed microorganisms, microflora and fauna. This process produces humus and releases mineral salts, which are plant nutrients, the well-known organic fertilizer formed naturally in the soil. In **NIPPONFERT** fertilizer, aggregated in a single pellet, the mixture of organic material with mineral nutrients is industrially made, the formulation elaborated according to your soil analysis, providing the exact correction of the same, and according to the crop to be implanted, following its extraction levels, then receiving biological treatment.



Law of the Minimum: "The growth and production of crops are limited by the nutrient that is found in smaller amounts in the soil".

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PLANT PRODUCTIVE BOX

Productive Box	Nutrient Export	Nutrient Extraction
• Climate conditions; • Sowing time; • Fertility and soil fertilization; • Type and quality of seed; • Spacing and plant population.	Amount of a certain nutrient effectively removed by the grain in its final product.	Amount of a certain nutrient that the plant needs to remove from the soil or air to produce a ton.

NIPPONFERT FERTILIZER MANUFACTURING PROCESS

This is one of the secrets of our fertilizer being the best on the market: every manufacturing process undergoes rigorous quality control and internal auditing at all stages.

1. **SOIL COLLECTION**
2. **PLANT PRODUCTIVE BOX**
3. **SOIL ANALYSIS**
4. **SELECTION AND ANALYSIS** ORGANIC MATTER
5. **FORMULA PREPARATION**
6. **MIXING OF MATTER** ORGANIC
7. **POLYMERIZATION** OF ALL NUTRIENTS

BENEFITS

BACTERIA

How will the bacteria present in the fertilizer act?

They promote nitrogen fixation, legume nodulation, increased root uptake, nutrient solubilization, phytohormones synthesis, contributing to greater growth promotion and improvement in soil conditions, in addition to acting in biological control, it has a nematicidal effect , bactericide, insecticide, promoting increased crop productivity.

Examples of biologicals and functions

Microorganisms	Agricultural action
Bacillus subtilis	defensin and nematicide.
Bacillus pumilus	fungicide, bactericide and defensin.
Bacillus amyololiquefaciens	nematicide and defensin.
Bacillus licheniformis	nematicide and nutrient solubilization.
Bacillus megaterium	phosphate solubilization.
Bacillus methylotrophicus	nematicide.
Bacillus thuringiensis subsp. aizawai	insecticide.
Bradyrhizobium pachyrhizi	nodulation, growth promoter and fungicide (rust).
Rhizobium tropici	nodulation and nitrogen fixation.
Pseudomonas fluorescens	fungicide, nematicide, defensive and promoter.
Spinosad (Sacharopolyspora spinosa)	insecticide and defensin.
Chromobacterium sp.	growth promoter and defensin.

ANALYSIS AND WARRANTIES

Analysis of organic material from Nipponfert fertilizers

Macronutrients	Micronutrients	Physical Analysis
Nitrogen (N) 4.14%	Iron (Fe) 0.35%	Organic matter 54.84%
Phosphor (P2O5) 2.07%	Manganese (Mn) 510 ppm	Total Organic Carbon 16.92%
Potassium (K20) 3.50%	Copper (Cu) 130 ppm	Moisture 10.16%
Calcium (Ca) 3%	Zinc (Zn) 511 ppm	pH 8.2
Magnesium (Mg) 1.52%	Boron (B) 200 ppm	Relationship C/N 4/1
Sulfur (S) 0.93%	Sodium (Na) 0.57%	

Product Warranties

%								ppm				
N	P	K	Ca	Mg	S	Fe	Na	Mn	Cu	Zn	B	M.O
02	07	07	1,81	0,73	0,38	0,20	0,29	315,21	58,14	376,20	92,91	28,13
05	05	05	2,33	0,94	0,48	0,26	0,37	404,80	74,66	483,12	119,32	36,12
07	07	07	1,99	0,80	0,41	0,22	0,32	345,63	63,75	412,50	101,88	30,84
02	08	15	1,87	0,75	0,39	0,21	0,30	325,16	59,98	388,08	95,84	29,02
10	08	08	1,68	0,67	0,35	0,18	0,27	291,43	53,75	347,82	85,90	26,01
04	14	08	1,82	0,73	0,38	0,20	0,29	316,97	58,45	378,18	93,40	28,28
09	02	15	1,65	0,67	0,34	0,18	0,27	287,56	53,04	343,20	84,76	25,66
05	23	05	1,49	0,60	0,31	0,16	0,24	259,91	47,94	310,20	76,61	23,19
02	02	30	1,35	0,54	0,28	0,15	0,22	235,03	43,35	280,50	69,28	20,97
04	07	07	2,20	0,88	0,46	0,24	0,35	382,12	70,48	456,06	112,63	34,10

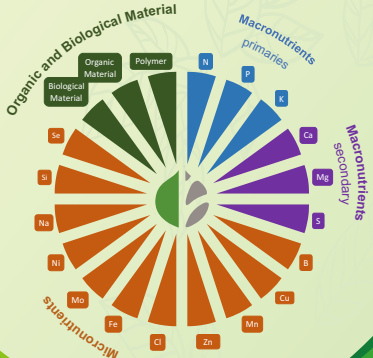
Extraction and export of main crops

Cutura		N	P	K	Ca	Mg	S
		(Kg.t^{-1})					
Corn	Extraction	21,5	3,9	17,1	2,4	2,8	2,6
	Export	14,4	3,4	5,4	0,3	1,1	1,1
Soy	Extraction	66,1	6,1	30,1	9,5	6,3	13,4
	Export	47,1	4,5	14,2	2,3	1,8	4,7
Manioc	Extraction	4,6	0,3	2,2	1,2	0,6	-
	Export	2,4	0,2	1,5	0,2	0,2	-
Rice	Extraction	24,1	2,3	27,5	6,9	4,7	3,6
	Export	13,8	1,7	2,3	0,7	0,8	2,9
Wheat	Extraction	28	3,9	19,9	2,4	2,3	3,5
	Export	20	3,2	3,5	0,2	0,8	1,2
Bean	Extraction	46	05	38	18	07	10
	Export	27	04	14	02	02	05
Sugar cane	Extraction	1,43	0,19	1,74	0,87	0,49	0,44
Cotton	Extraction	57	21	33	31	24	16
	Export	43	15	10	08	11	07

Nipponfert® fertilizantes

High performance agriculture

We are not limited to just NPK in the pellet, but in having all the elements in sufficient quantities necessary for the health and better performance of your soil and production.



Polymer

The polymer transforms the nutrients in the fertilizer into a kind of gel, which causes all the nutrients present in the pellet to be encapsulated, in addition to physically changing them, making them more soluble (available) for the plant, thus reducing losses of nutrients by water run-off, leaching, volatilization, in addition to gradually releasing the fertilizer into the soil. This makes the plant have a better use of water and nutrients.
During the dry period it will serve as a water reserve, keeping the plant moist and continuing its cycle.

Water retainer

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WHERE THERE IS NIPPONFERT, THERE IS PROGRESS

"Soil life is plant life, feed the soil and it will feed the plants"

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