PETRO 330 ST BIO

a new way of making basal dressing

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PETRO 330 ST BIO

Suitable for organic agriculture

AGRIGES exclusive production technology

Soil application

A new way of making basal dressing

QUALITY

Agriges performs a constant screening of raw materials and finished products, ensuring total traceability of the production process through:

- periodic analysis carried out by **ACCREDITED EXTERNAL Laboratories**;
- verification of the microbiological health of raw materials and products by internal **MICROBIOLOGICAL Laboratory**;
- analytical investigations from the Internal **QUALITY CONTROL Laboratory** in order to verify compliance with the parameters of law (pH, conductivity, nutrient content, presence of heavy metals).

Moreover, Agriges implements more restrictive protocols also towards the new unwanted contaminants in the fruit and vegetables sector: **perchlorates, chlorocresol, nitrates, antibiotics**, etc., in consideration of the increasingly stringent demands of the market, in particular of the one that moves towards the Large Retail Organization. .

COMPOSITION

Total nitrogen (N)	3,0 %	Total Calcium oxide (CaO)	8,0 %
Organic nitrogen (N)	3,0 %	Total Sulfuric trioxide (SO_3)	6,0 %
Total phosphoric anhydride (P_2O_5)	3,0 %	Organic matter	38,0 %
AEROBIC natural bacteria *	$9,2 \times 10^8$ UFC/g	HUMIFICATION RATE *	40 %
ANAEROBIC natural bacteria *	$6,2 \times 10^8$ UFC/g	HUMIC + FULVIC acids*	10 - 11 %

Components: protein hydrolysates with variable mineralization, humified mixture of manure (bovine, poultry), vegetable panels, calcium sulfate, RyZea.
* Data not shown on the label.

PRODUCTION PROCESS

The production process of PETRO 330 ST BIO involves a natural fermentation, which lasts about 6 months and during which the mass is periodically turned over and constantly monitored with probes to verify the temperatures necessary to sanitize the material from harmful microorganisms to human health and the correct execution of the transformation process. Therefore, PETRO 330 ST BIO is a product:

- highly **humified**;
- **matured naturally**, without using external ovens or heat sources, at Agriges factories;
- free of **harmful micro-organisms** to human health.

In addition, PETRO 330 ST BIO is a **"live" fertilizer**, with a high *biological fertility.* This represents a further added value since the natural contribution of micro-organisms useful in the pellet favours the degradation of organic matter in the soil and the gradual nutrients release.

GRADUAL NUTRIENTS RELEASE

The raw materials of PETRO 330 ST BIO are appropriately selected to ensure an effective nutrients **GRADUAL RELEASE**. In fact, thanks to the skilful mix of organic matrices with variable mineralization, PETRO 330 ST BIO gradually supports crop nutrition up to over 29 weeks after application (Fig 1). The nutrients of PETRO 330 ST BIO:

- are mineralized in sync with plant needs;
- ensure a slow and gradual release without them excess or deficiencies;
- re much less prone to leaching, leaching or loss due to volatilization than a chemical product;
- whenever the soil is irrigated, the fertilizer is reactivated.

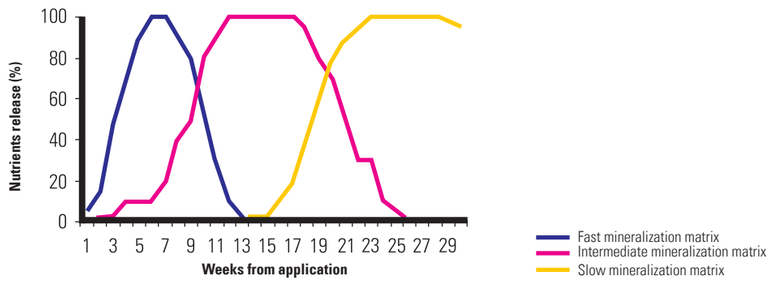

Fig. 1

Formulation: pellet/powder; **Package size:** 25 - 600 kg/bag, big bag; **Pellet diameter:** 3,5 mm; **Humidity:** 5-6%

RyZea, turn nutrition into an opportunity to boost the plant metabolism

Triptych of algae

RyZea is a modern production technology that involves the extraction of bioactive molecules from three algae: *Ascophyllum nodosum*, *Fucus spp.* and *Laminaria spp.*, originating from the Atlantic Ocean and collected in the phase of their cycle in which the concentration of **phyto-active compounds** is highest. The extraction process is extremely "delicate" and is based on the reduction of algae in very small particles (micronization) at different pressures.

This allows not altering the phyto-active properties of the algae, which then provide:

- **natural chelating agents**, which improve nutrients uptake;
- **plant phytohormones** and hormone-like action molecules, which activate the plant's metabolism and growth;
- **endogenous resistance inductor** to the main stress agents;
- **energy reserve** readily usable by the crop.

FEEDING, ACIDIFYING, DESALINIZING, UNLOCKING NUTRIENTS

PETRO 330 ST BIO distinguished from the traditional organic fertilizers normally available on the market as the organic matrix of which it is composed is expertly mixed and enriched with GYPSUM. Therefore, PETRO 330 ST BIO performs an action:

- **unlocking**: increases fertility, releasing immobilized nutritional elements;
- **nutritious**: it favors the absorption of microelements thus reducing any deficiencies (eg of di Fe, Zn, Cu, ecc.);
- **acidifier**: it has a corrective action, especially on sodium and saline soils, rebalancing the pH and the electrical conductivity.

SOIL IMPROVEMENT action

In addition to the basal fertilization, PETRO 330 ST BIO has a powerful **SOIL IMPROVEMENT ACTION** due to the rich endowment of organic matter with a high degree of humification. The **HUMIC** and **FULVIC ACIDS** of PETRO 330 ST BIO:

- improve soil chemical-physical characteristics, such as the soil structure, increasing the amount of water available to the plant and favoring the drainage of excess water;
- stimulate rhizogenesis and promote the balanced development of the plant, carrying out a hormone-like action;
- activate beneficial soil microorganisms by improving nutrient turnover.

Some field tests carried out after the application of PETRO 330 ST BIO.

Pear tree

Grape vine

Cherry tree

Lattuce

Zucchini

Tomato

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