



## VIGORHUMUS H-90 PELLETT (8-3-3)

PRODUCT SUITABLE FOR ECOLOGIC AGRICULTURE UNDER REGULATION (CE) Nº 834/2007.

Organo-mineral fertilizers provide the crop with all nutrients for proper vegetative development, including the main macronutrients (nitrogen, phosphorus and potassium), also secondary, and micronutrients; Besides improving the structure of the soil and providing organic matter to the crop due to its organic composition.

**VIGORHUMUS H-90 PELLETT**, is an organ-mineral fertilizer NPK, rich in nitrogen (8%) combined with a balance in P and K of 3% with the objective of providing a fast nitrogen-supplied vegetative growth together with the physical stability and resistance provided by phosphorus and potassium. The high content of organic matter around 70% on dry matter increases the fertility of the soil allowing a better absorption and availability of nutrients by soil microorganisms. It is presented in "pellet" format allowing better handling and application.

**VIGORHUMUS H-90 PELLETT** unites the individual qualities of the organic and mineral fertilizer in a single product, enhancing its effects, which results in the benefit of a better and more rational plant food

**VIGORHUMUS H-90 PELLETT**, is registered in the Register of Fertilizers according to RD 506/2013, with the number F0002994 / 2027.

### Composition

**VIGORHUMUS H-90 PELLETT** has a high percentage of organic nitrogen allowing a progressive transformation of this in mineral providing a contribution of a constant and prolonged way in the time improving the yield of a culture in the medium and long term.

**VIGORHUMUS H-90 PELLETT** has a high organic matter content of 70% on dry matter, with a significant percentage in humic and fulvic acids of 10% each, facilitating ion exchange in the soil-plant change complex, and in Thereby enhancing the cation exchange capacity (ICC) of nutrients, as well as improving the physical properties of the soil. In particular, they favor the porosity, aeration and circulation of water in clay soils; and provides structure in sandy soils.

The Carbon / Nitrogen ratio corresponds to a stable range of nitrogen mineralization values, being easy the assimilation of nutrients by the crop.

Its manufacture is made from different compost of animal and vegetable origin enriched with extracted organic seeds and potash as a source of potassium.

PARAMETER	UNITS	VALUE
ORGANIC MATTER	% s.m.s.	70- 75
TOTAL HUMIC EXTRACT	% s.m.s.	18 - 22
HUMIC ACIDS	% s.m.s.	9 - 11
FULVIC ACIDS	% s.m.s.	9 - 11
C/N RELATION	-	6 - 10

The entire manufacturing process, as well as the final product, is subject to our rigorous quality controls, in order to guarantee the satisfaction of our customers and respect the environment in all our production and management phases .

**VIGORHUMUS H-90 PELLETT** allows a constant and progressive nutrition of the plant for its content in organic components, since its richness is supplied regularly throughout the crop cycle, avoiding excessive releases as well as leaching losses.

In addition, the high levels of humic extract of organic matter contribute favorably to the availability of phosphorus and micronutrients in the soil-plant complex, since the latter are in complex form. The blockage of these nutrients usually occurs in calcareous soils - due to pH - and poor in organic matter, due to the low level of organic matter; So the contribution of **VIGORHUMUS H-90 PELLETT** reduces the problem of the blocking.

PARAMETER	s.m.s.	s.m.f.
HUMIDITY (%)	-	8 - 12
pH	6 - 8	6 - 8
Total NITROGEN (N) (%)	9 - 10	8,0
ORGANIC NITROGEN (N) (%)	6,9 - 7,1	6,4
PHOSPHOROUS PENTOXIDE (P <sub>2</sub> O <sub>5</sub> ) soluble with water and neutral ammoniac citrate (%)	3,2 - 3,4	3,0
Total POTASSIUM OXIDE (K <sub>2</sub> O) (%)	3,2 - 3,4	3,0
Total MAGNESIUM (Mg) (%)	0,75 - 0,8	0,7
Total CALCIUM (Ca) (%)	2,5 - 2,6	2,3
Total IRON (Fe) (%)	1,0 - 1,1	1,0
HEAVY METALS (Class)	A	A
Salmonella (presence in 25g)	Ausencia	Ausencia
E. Coli (NMP/g)	< 3	< 3
GRANULOMETRY (90% of the product)	< 10 mm	< 10 mm



## Characteristics

The exclusive use of chemical and inorganic fertilizers implies a deterioration of the fertility of the soil, since they do not provide the structures and characteristics necessary for its correct physical, chemical and microbiological development. On the contrary, the use of organ-mineral fertilizers, such as VIGORHUMUS H-90 PELLET contributes to soil fertility, while representing a source of mineral nutrients for cultivation.

**VIGORHUMUS H-90 PELLET** has a high nitrogen richness (NPK balance 1-0,4-0,4), suitable for growth stages and, indicated especially for the production of leaf orchards, leaf ornamental plants, production of Plant material for biomass. It can be used in combination with other fertilizers to cover all the nutritional needs of a crop in its different stadiums.

Of particular importance is the high proportion of nitrogen in organic form, allowing a slow transformation of this nitrogen and consequently a gradual, constant and prolonged availability to the plant. Acting in this way as a controlled release fertilizer with the advantage of a significant improvement in soil fertility brought about by the high rate of organic matter responsible for the proliferation of microbial life precursor of this transformation of organic components to absorbable by plants .

This organic component of nitrogen allows for greater resistance to pests and diseases and greater resistance to water stress due to its ability to regulate cell growth, and especially its walls, responsible for the water retention capacity regulated by osmosis.

## Format, application and dosage

**VIGORHUMUS H-90 PELLET** is served in bulk, in Big-Bag or in plastic bags of 25 kg capacity, on American or English shrink pallet (100 x 120 cm).

It is presented in "pellet" format, to facilitate its handling and distribution in the field, minimizing the losses of the product during its use.

The product can be applied as a base or a cover fertilizer, due to its organ-mineral characteristic. The following table presents, as an indication, the fertilizer doses recommended for each type of crop.

CULTIVO	Dosis (*)
Fruity, citrus, subtropical	1,0 – 1,5 TM/Ha
Vine and olive	400 kg/Ha
Horticulture and flower growing	1,6 - 2,4 TM/Ha
Gardening	40 kg/100 m <sup>2</sup>
Grass	25 kg/100 m <sup>2</sup>

(\*) The doses are calculated for a working depth of 20 cm. For a deeper working zone, it is necessary to proportionally increase the dose.

Prevent access to land fertilized with this product to farm animals for at least 21 days after application

Our Technical Department will assess you with the most appropriate Fertilizing Plan for your crop.

The application period is recommended to coincide with the principle of the stages of vegetative growth of the crops, between late winter and early spring or between late summer and early autumn, depending on the crop.

It is also recommended to bury the product around the root-development area using a superficial labor in the preparation of the terrain.

**VIGORHUMUS H-90 PELLET** is suitable for the following application fields: extensive agriculture; forests, fruit trees, ornamental and vine plantations; reforestation and landscape restoration; horticulture; parks and gardens; sportive terrains; fertilizer for cultivation substrates.

Thanks to our production system, exempt of chemical treatment, **VIGORHUMUS H-90 PELLET** completely maintains the quality, the content in organic matter and the activation of microbial flora, which provides important advantages:

- Thanks to a better stabilisation of the hummus of the organic matter, the application dosage can be reduced, improving the performance in the crops and lowering the cost of the treatment.
- It is easy to use, which implies the minimization of the product loss and the lowering of the doses compared to the dust format fertilisers. This property makes its application in great cultivation extensions possible.
- Possibility of application with any kind of fertilising machine.
- Easy disintegration of the pellet once it is applied to the soil, favouring the incorporation of its nutrients in the soil-plant complex, improving its vegetal assimilation.

