

N-G000 NPK 14-6-16

B.T.C.

NITROGEN COMPOUND FERTILIZERS WITH DCD NITRIFICATION INHIBITOR OBTAINED BY PHYSICAL COMPACTION

The N-G000 LINE is the range of slow-release granular nitrogen fertilizers, containing the nitrification inhibitor Dicyandiamide (DCD). The presence of DCD, which inhibits the activity of the Nitrosomonas bacteria responsible for the nitrification process, allows the gradual transformation of ammoniacal nitrogen, absorbed by soil colloids and non-washable into the nitric form, highly washable, in a period of time between 60 and 90 days. Throughout this period, nitrogen is made available to the plants gradually, reducing losses both by leaching into the soil and by volatilization in the atmosphere. This allows a dose reduction of up to 20% in fertilizing units, compared to traditional formulations.




The granular formulation of these fertilizers is obtained through compaction, a dry granulation process borrowed from the pharmaceutical industry that uses mechanical compression to agglomerate the particles of the raw materials. This allows for granules to be obtained without adding solvents, which can have a negative impact on the final solubility of the product. The granule obtained by compaction is characterized by easy and fast disintegration, ensuring a rapid assimilation of nutrients by the roots.

The efficacy of the product is also improved by the particular production process in which DCD in the microcrystalline state is mixed with the other raw materials (Nitrogen, Phosphorus, Potassium) and everything is subsequently compacted. This allows to ensure the uniform distribution of the inhibitor in the granule, improving its effectiveness and efficiency both in nutritional and environmental terms.

N-G000 NPK 14-6-16 B.T.C. is a complex fertilizer of the N-G000 LINE whose high potassium content is balanced by the presence of nitrogen and phosphorus, ensuring a proper plant metabolism. The presence of Boron promotes pollination and fruit setting and, in synergy with Calcium, causes a strengthening of the tissues that makes the plant more resistant to mechanical and environmental stress. Calcium also cures and prevents all the physiological plant disorders related to the deficiency of this mesoelement (tomato apical rot, apple bitter pit, grape stem necrosis, lettuce tip burn, poinsettia yellow edging). The formula is completed by magnesium, which prevents and cure leaf yellowing and intensifies flower coloring, and sulfur, which promotes phosphorus and microelements absorption due to its acidifying power of the rhizosphere. N-G000 NPK 14-6-16 B.T.C. is suitable for fertilizing all crops that benefit from the constant and progressive availability of nitrogen. Thanks to its balanced formula, it is recommended from the early stages of cultivation until ripening.

CROP	TIME OF APPLICATION	DOSE/HECTARE*
Fruit crops e Horticultural crops e Olive	Pre-transplanting/sowing fertilization, Post-transplanting/sowing fertilization	300-900 kg

COMPOSITION	
Total nitrogen (N)	14.00%
Ammoniacal nitrogen (N)	5.00%
Ureic nitrogen (N)	9.00%
Nitrogen inhibitor Dicyandiamide (DCD)	2.50%
Inhibitor content as a mass percentage of the total nitrogen	2.50%
Phosphoric anhydride (P ₂ O ₅) total	6.00%
Phosphoric anhydride (P ₂ O ₅) soluble in water	4.00%
Phosphoric anhydride (P ₂ O ₅) soluble in neutral ammonium citrate and in water	6.00%
Potassium oxide (K ₂ O) total	16.00%
Potassium oxide (K ₂ O) soluble in water	16.00%
Calcium oxide (CaO) soluble in water	2.00%
Magnesium oxide (MgO) total	2.00%
Sulfuric anhydride (SO ₃) soluble in water	31.00%
Boron (B) total	0.10%

PHYSICO-CHEMICAL FEATURES			
GRANULAR			
METHOD OF USE			
		Cover fertilization	Pre-sowing fertilization

PACKAGING: 25 KG - PALLET 1500 KG, BIG BAG 600 KG