

# N-G000 NP 20-10

## 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 NP 20-10 is a binary fertilizer (NP) of the N-G000 LINE recommended for sowing fertilization of soft and durum wheat, and other autumn-winter cereals. Ideal also for corn, sorghum, sunflower, rapeseed and beets. Excellent for applications on tomato, artichoke, spinach and other industrial crops. The use on olive, citrus and hazelnut trees is of great interest.

CROP	TIME OF APPLICATION	DOSE/HECTARE*
Fruit crops e Horticultural crops e Cereal crops	Pre-transplanting/sowing fertilization, Post-transplanting/sowing fertilization	300-600 kg

COMPOSITION	
Total nitrogen (N)	20.00%
Ammoniacal nitrogen (N)	14.00%
Ureic nitrogen (N)	6.00%
Nitrogen inhibitor Dicyandiamide (DCD)	2.50%
Inhibitor content as a mass percentage of the total nitrogen	2.50%
Phosphoric anhydride (P <sub>2</sub> O <sub>5</sub> ) total	10.00%
Phosphoric anhydride (P <sub>2</sub> O <sub>5</sub> ) soluble in water	3.00%
Phosphoric anhydride (P <sub>2</sub> O <sub>5</sub> ) soluble in neutral ammonium citrate and in water	5.00%
Phosphoric anhydride (P <sub>2</sub> O <sub>5</sub> ) soluble in mineral acids	5.00%
Sulfuric anhydride (SO <sub>3</sub> ) soluble in water	32.00%

PHYSICO-CHEMICAL FEATURES			
GRANULAR			
METHOD OF USE			
	Cover fertilization	Pre-sowing fertilization	Fertilizers for bush transplanting

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