

## DATA SHEET

### NPK BARBARY PLANTE G4

The Fertilizer Hydro-Retentive Evolution **NPK BARBARY PLANTE G4** is a fertilizer based on nitrogen (N), phosphorus (P), potassium (K), and trace elements encapsulated in a hydro-retentive composed of biodegradable agricultural super absorbent copolymer developed specifically by **BARBARY PLANTE**. This unique fourth-generation water-retaining fertilizer comes in the form of un-hydrated green granules.

The Fertilizer Hydro-Retentive Evolution **NPK BARBARY PLANTE G4** is a base fertilizer promoting plant growth and protection while optimizing water management and soil quality. Thanks to its unique formulation, this fertilizer helps reduce the production of nitrates and N<sub>2</sub>O (nitrous oxide), two compounds harmful to the environment.

The French Ministry of Agriculture has approved the fertilizers hydro-retentive **BARBARY PLANTE** according to a "Certificate of Free Circulation" with the number 9010133.

The Fertilizer Hydro-Retentive **BARBARY PLANTE** have received prestigious awards and certifications, including the Gold Medal for Inventions and New Techniques, and the Gold Medal from the World Intellectual Property Organization (WIPO).

#### Composition NPK BARBARY PLANTE G4:

- Approximately 80% Nutrients
  - Azote (N), phosphorus (P), potassium (K),
  - Trace elements
- Approximately 20% non-hydrated hydro-retentive based on agricultural super absorbent copolymer **BARBARY PLANTE**.

#### Characteristics:

Form:	Granulated
Color:	Green
Ionic character:	Anionic
Particle size:	2 - 5 mm
Approximate Bulk Density:	0.8 - 0.9
Absorption capacity in deionized water (g/g):	100-500
Storage Temperature:	from 5°C to 30°C

#### NPK BARBARY PLANT G4 is recommended for the following crops:

Alfalfa, almonds, avocados, apples, orange, lemon, olive, pomegranate, mango, palm, barley, all beans, broccoli, cabbage, cauliflower, carrots, celery, citrus, soybeans, corn, cotton, grapes, lawns, lettuce, melons, nectarines, tea, coffee, rice, pears, peaches, peanuts, sorghum, sugar cane, beets, strawberries, tomatoes, grass, turnips, nuts, watermelons, wheat, and all other crops.

#### Instructions for use

The recommended application rates are based on the type of soil:

1. **Field cultivation:** Apply approximately 30 kg per hectare of **NPK BARBARY PLANT G4** mixed with 50% of the usual basal fertilizer used before planting by spreading and mixing it with the soil to a depth of 5 to 10 cm in root development zones or by localized application in planting rows beneath the seeds.
2. **Tree and orchard cultivation:** Apply 50 to 100 g of **NPK BARBARY PLANTE G4** per tree, mixing it with the substrate of each hole before planting the trees.
3. **Market gardening and horticulture:** apply 5 to 10 g of **NPK BARBARY PLANT G4** per plant by mixing it with the soil before planting, adding it to each planting hole along each row, or spreading it under the seeds in each row.

## Key Benefits of NPK BARBARY PLANT G4:

1. Reduced watering by up to 50%
2. Rapid water absorption up to 500 times its original volume
3. Slow release of water and nutrients
4. Neutralization of the harmful effects of salts allowing the desalination of brackish water
5. Improvement of arid, sandy, and saline soils
6. Improved yields in quantity and quality compared to the use of conventional fertilizers
7. Reduction of cultivation cycles
8. Optimization of soil interventions, reduction of chemical pollution and mitigation of fertilizer leaching.
9. Reduced operating costs
10. Guaranteed recovery of young plants in drylands
11. Regeneration of Ancient Trees
12. Regeneration and Healing of Diseased Trees
13. Obtaining organic harvests by reducing the need for chemical fertilizers and phytosanitary products
14. Contributes to the preservation of water quality by reducing nitrate production and limiting water pollution.
15. Reduces greenhouse gas emissions, including N<sub>2</sub>O, which helps mitigate air pollution and limit climate impacts.

## The NPK BARBARY PLANTE G4 reduced:

The effects of erosion, soil degradation, drought, desertification, groundwater pollution, nitrate infiltration and nitrogen-related greenhouse gases.

## Application ranges of the NPK BARBARY PLANTE G4:

Desert soils, barren lands, drought zones, arboriculture, large-scale crops, forests, green spaces, sports fields, golf courses, lawns etc.

## Packaging:

Bucket:	950 g, 5 kg, 20 kg
Plastic bag:	25 kg et 50 kg
Flexible Container:	500 kg et 750 kg
Other Packing:	Contact us at <a href="mailto:servicecommercial@agrofrance.fr">servicecommercial@agrofrance.fr</a>

## Storage:

Shelf life: 12 months, if the product is stored in a building at a stable temperature between 5°C and 30°C (Do not expose the product to high temperatures and protect it from sunlight).

## Compatibility:

Can be mixed with most commonly used products. It is always recommended to perform a compatibility test beforehand.

## Precautions:

Keep out of reach of children and store away from pets, livestock, food, and water.

Our liability is limited to guaranteeing the product in its original packaging.

## Agro France International Holding BARBARY PLANTE

Salah Barbary  
Chairman