



Squash and melon Fertilization



NovaTec[®] Solub



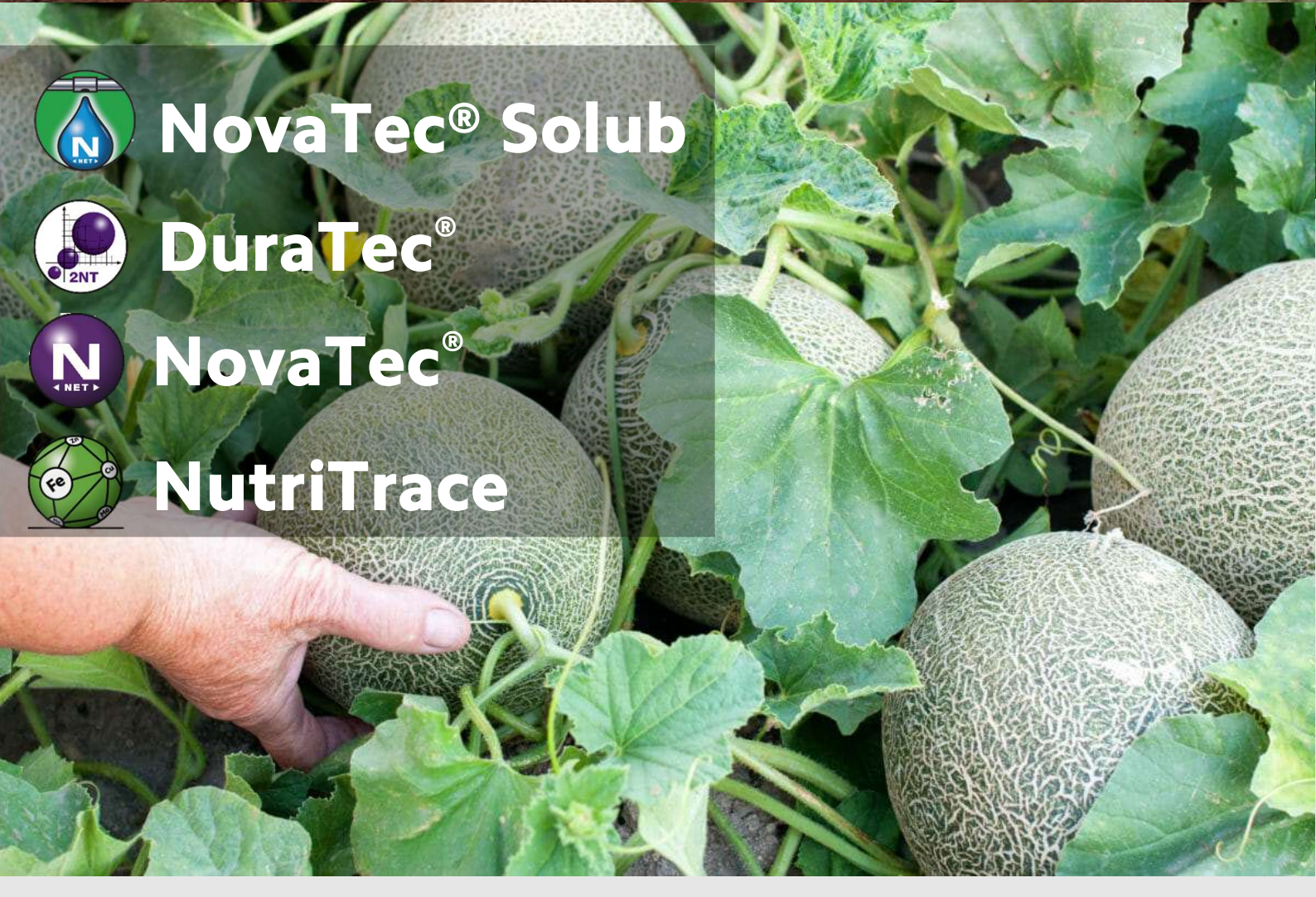
DuraTec[®]



NovaTec[®]



NutriTrace



Fertilizer Program

Option 1 (40 t/ha)

Growth Stage	Weeks after Planting	Product	kg/ha
At Planting	0	Duratec® Top 14-7-14 + S + Mg + TE	1250

Option 2 (40 t/ha)

Growth Stage	Weeks after planting	Product	kg/ha
At Planting	0	Duratec® Top 14-7-14 + S + Mg + TE	900
Flowering to small fruit	4-6	Novatec® Solub K-Max 10-5-30	250
		Novatec® Solub NK Ca	100
Small fruit	8-10	Novatec® Solub K-Max 10-5-30	100

Option 3 – Blended Product (40 t/ha)

Growth Stage	Weeks after Planting	Product	kg/ha
At Plant	0	Duratec® Top 14-7-14 + S + Mg + TE	900
		Novatec Premium 15-3-20	350

Option 4 – Blended Product (40 t/ha)

Growth Stage	Weeks after Planting	Product	kg/ha
At Plant	0 4-5	Basacote Plus 3M	250
		Novatec Premium 15-3-20	900

Foliar/ Micro Nutrient Program

Growth Stage	Weeks after planting	Product	kg/ha
Flowering to small fruit	4	Nutibor	3
Small fruit	8	Nutrimix Complete	3

Please note: The above are general fertilizer recommendations, based on nutrient removal. Site specific information is needed for a better customised program. Please contact your nearest agronomist to assist.

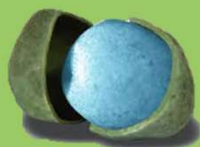


DuraTec®

2NT Inside – The New Standard of NPK

DuraTec® is a partly coated and controlled release fertilizer with nitrification inhibitor DMPP (3,4-dimethylpyrazolophosphate). It is SOP-based and excellent for application in vegetables, fruits, nursery, landscape and turf systems. Thanks to the innovative **controlled release technology** derived from Basacote® and **slow-release technology** (Novatec® DMPP), it has numerous environmental benefits, e.g. lower emission of greenhouse gases and a huge reduction of nitrogen leaching losses. On the other hand, the unique 2N-technology (nitrification inhibitor + coating) increases the nutrient efficacy, which leads to better results with less fertilizer.

DuraTec® double N- technology, double efficiency. The safest and most efficient nutrition for your vegetables.



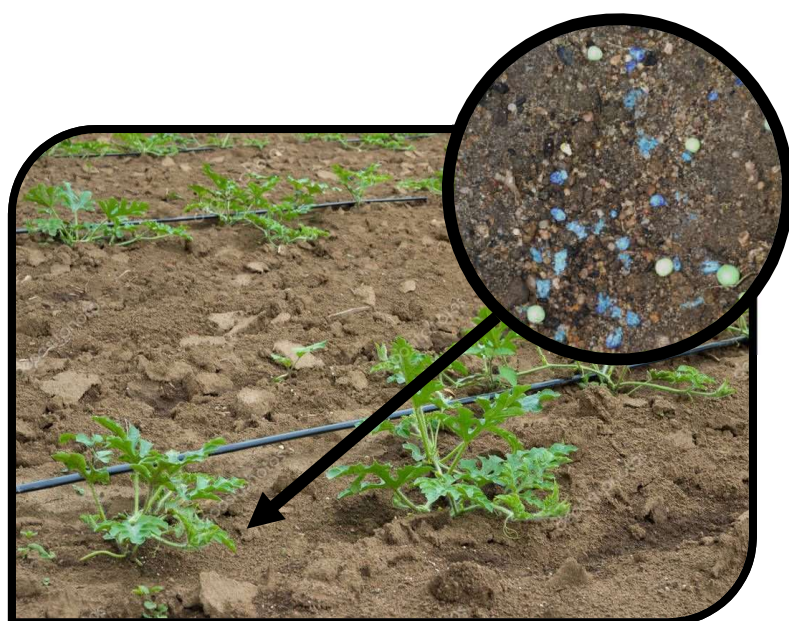
Up to 25% is fully coated ensuring **Nutrient release over 3 months**

+



Rest of the product is **stabilised - N**

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Advantages:

- ❑ With limited leaching and volatilisation, a higher nutrient use efficiency is achieved.
- ❑ DuraTec® is a soil applied insurance to the crop. If unexpected rain occurs, fertilizer will not be lost. Less frequent application equals less labour.
- ❑ Thanks to the coated granules, and the nitrification inhibition it meets the nutritional needs of the crop at every stage and ensures better ammonia nutrition.
- ❑ A high efficiency at lower doses means less product is used and a reduction in application frequency. Saving labour and fuel.
- ❑ DuraTec® prevents contamination of aquifers: it has a minimal environmental impact.

NovaTec[®] and NovaTec[®] Solub

Ammonium stabilised granular and water soluble fertilizers

Advantages of NET (Nutrient Efficient Technology)

1) Better use of the nitrogen provided:

With fewer nutrient losses through leaching.

2) Optimal crop yield:

NET technology allows you to ensure availability of nitrogen in the 2 forms absorbable by the plant (nitrate and ammonium):

3) Energy savings:

The plant, by directly absorbing ammonium nitrogen, avoids a step in the natural process of the transformation of nitrogen into proteins, ultimately increasing production.

4) Improved flowering:

The absorption of ammonium promotes the synthesis of phytohormones (gibberellins and cytokinins) and polyamines, responsible for flowering.

Features of the Novatec[®] and Novatec[®] Solub Range

Quality raw materials

Nitrogen (in nitric and ammonium form only), phosphorus and potassium (free of chlorine and sodium), of maximum quality and highly dissolvable.

A comprehensive, environmentally-friendly range.

For all types of crops and fertiliser programmes, contributing to more environmentally-friendly agriculture.

Safety and ease of use

Crystalline fertilisers are homogeneous, free of carbonates and free of impurities. Its high acidifying power prevents obstructions in irrigation emitters and improves the absorption of soil microelements.

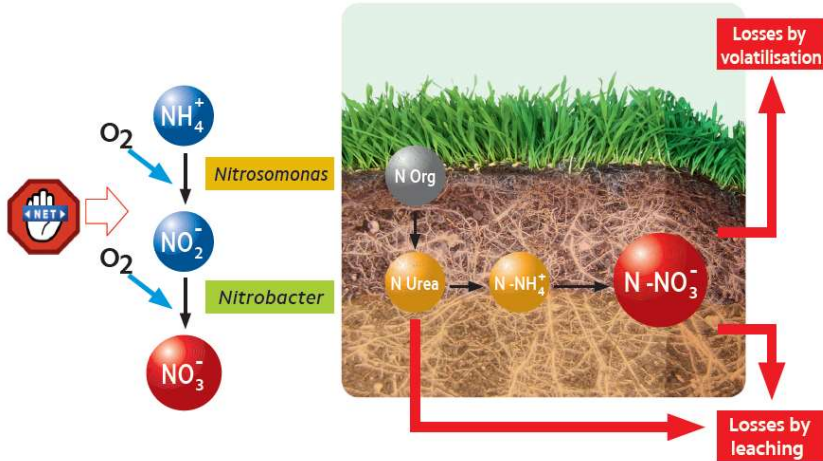
Official certifications

The NovaTec[®] Solub range has all the certifications required by EuroGAP and GlobalGAP:

- Technical data sheets
- Safety data sheets
- Certifications of heavy metals



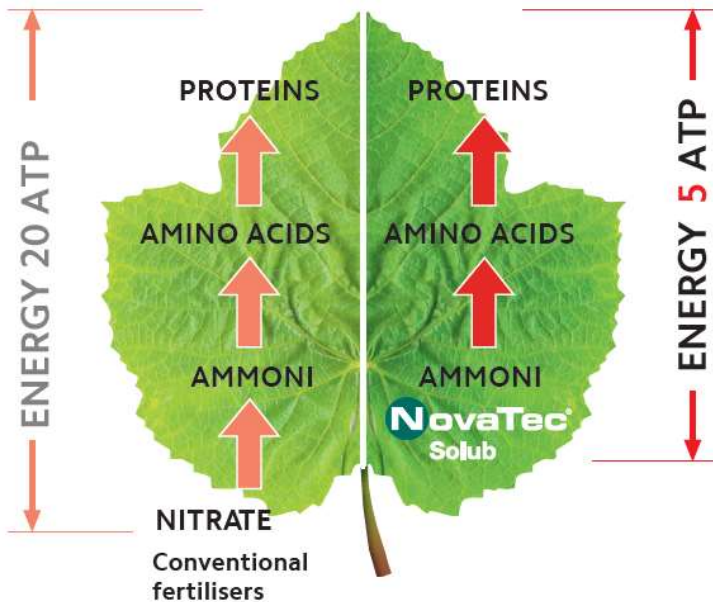
Novatec® - How Does It Work?



NovaTec® Solub contains the nitrification inhibitor 3,4-dimethylpyrazole phosphate (DMPP). This molecule **inhibits** the nitrosomonas bacteria present in the soil, which are responsible for the transformation of ammonium into nitrite, eventually to nitrate.

- Ammoniacal nitrogen is retained in the soil by the clay-humic complex, while nitrogen in nitrate form is highly soluble and easily washable, thus achieving greater nitrogen availability for cultivation.
- In this way, only the formation of nitrates is avoided, ensuring the nitrogen in the soil in the ammonia form for a time, reducing the risk of nitrate leaching.

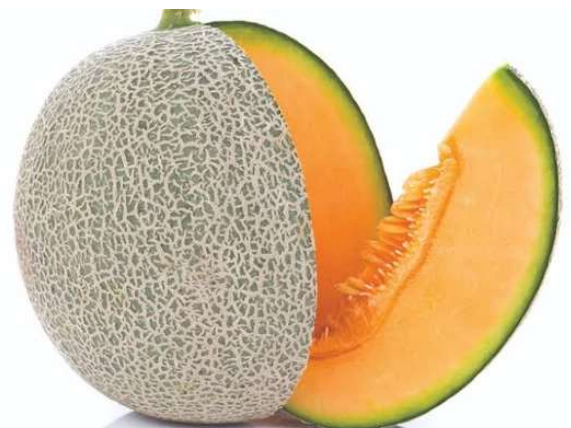
Novatec® - Benefits of Ammonia Nutrition



ATP = Adenosine Triphosphate.
ATP is one of the most important energy transmitters in plants

The above delay in the nitrification of Ammonium (NH_4^+) to Nitrate (NO_3^-) leads to more efficient NH_4^+ nutrition.

- Energy savings by Ammonium N-nutrition (no biological reduction required)
- Enhanced flowering (ammonia promotes synthesis of phytohormones and polyamines)
- Ammonium nutrition favours root growth





Novatec® - The pH Effect

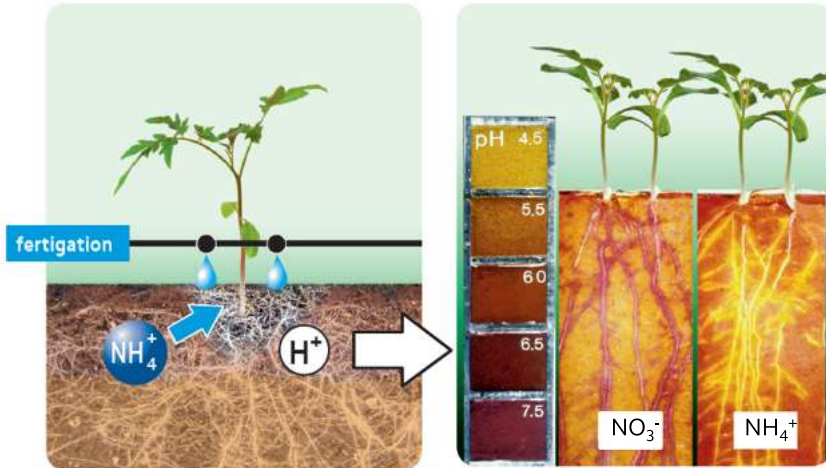
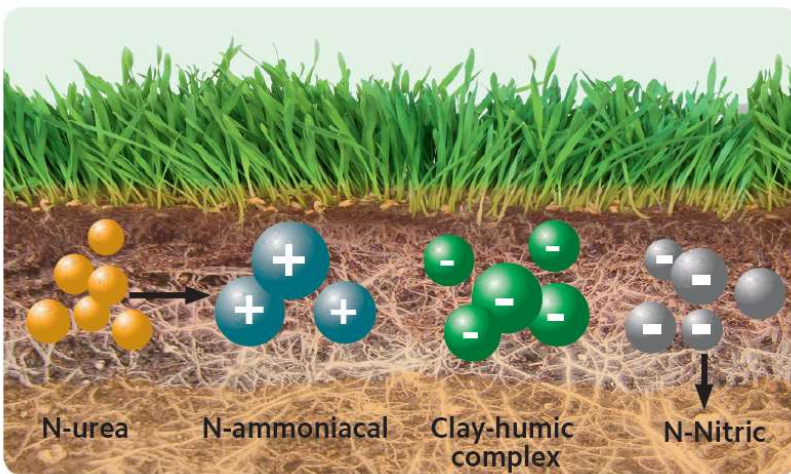


Photo: Römheld, University of Hohenheim

Ammonium nutrition leads to temporary acidification of the rhizosphere

- Absorption of micro elements and Phosphate is increased by this effect
- This effect is temporary and localised around the roots, ensuring no negative pH effects on the soil

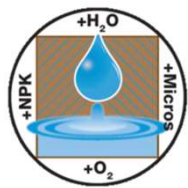
Novatec® - Less Nitrogen Loss



Novatec® Solub strongly reduces N-leaching due to a higher ammonium concentration in the soil

- Ammoniacal nitrogen is retained in the soil by the clay-humic complex, while nitrogen in nitrate form is highly soluble and easily washable, thus achieving greater nitrogen availability for cultivation
- In this way, only the formation of nitrates is avoided, ensuring the nitrogen in the soil in the ammonia form for a time, reducing the risk of nitrate leaching.
- Novatec® Solub leads to significant ground water protection





Kamasol® Aqua

KAMASOL® AQUA is a high-efficiency concentrated **moisturizing agent** that improves the infiltration, water retention and the wet bulb of the soil, which benefits the soil moisture profile.

KAMASOL® AQUA redistributes the forces of water on the ground and this favours the availability of water, oxygen and nutrients in the root zone, which increases the positive effects in the whole plant-soil-water interaction.

The effect of Kamasol® Aqua on the soil

- ❑ Increases water infiltration and its lateral distribution in the soil.
- ❑ Decreases water losses through runoff and percolation.
- ❑ It favours the root development minimizing the pot effect.
- ❑ Maximizes nutrient assimilation: less leaching, more solubilisation.
- ❑ It results in reducing irrigation between 15-30% in controlled irrigation strategies.
- ❑ It reduces drought frequencies between showers when applied before rain.
- ❑ It breaks hydrophobic layers as well as surface crust.



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