

EXPERTS FOR GROWTH



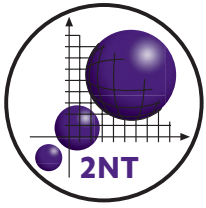
## Partly Coated Fertilizer



# DuraTec<sup>®</sup>

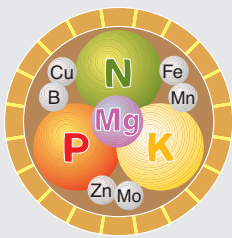
- Unique double nitrogen technology
- Immediate and long-term effect
- Environmentally friendly

## DuraTec® – Doubly nitrogen technology

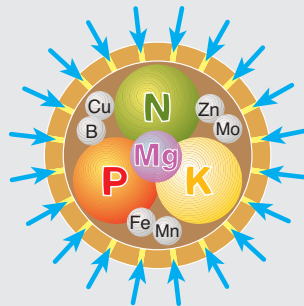


- DuraTec® combines two nitrogen technologies
  - Stabilization of ammonium with DMPP
  - Polymer coated granules to ensure a controlled nutrient release
- Well suited for cash crops such as vegetables, fruits and other horticultural and agricultural crops

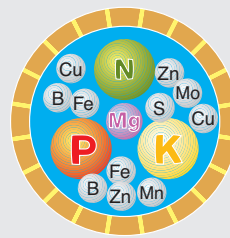
## COMPO EXPERT coating technology



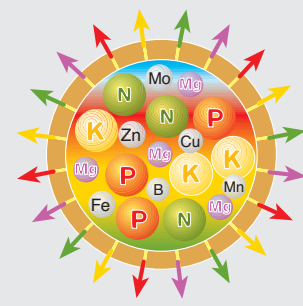
NPK-granules are partly coated with an elastic polymer.



After application, water slowly enters through the pores.



The nutrients are dissolved in water. The result is a concentrated nutrient solution.



A controlled nutrient release over 3 month is ensured

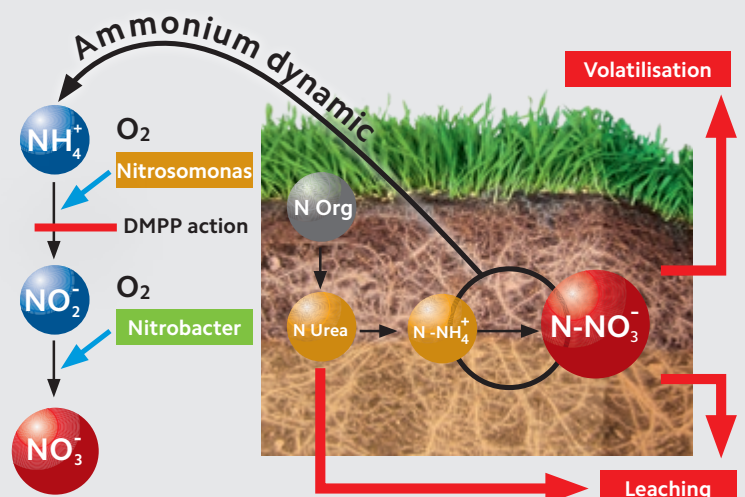
3 month longevity

## COMPO EXPERT coating technology

- Even thickness
  - Ensuring high crop safety through controlled nutrient release
- High elasticity – High safety;
  - Mechanical damage is reduced to a minimum
- Climate adapted release technology
  - High frost resistance of the new coating, even under high temperature fluctuations
- Release time depends on temperature and humidity
- Ensures nutrient availability according to the plant requirements
- Trace element supply
  - Micronutrients (B, Fe, Zn) are supplied in every granule

## Ammonium-based fertilization with nitrification inhibitor

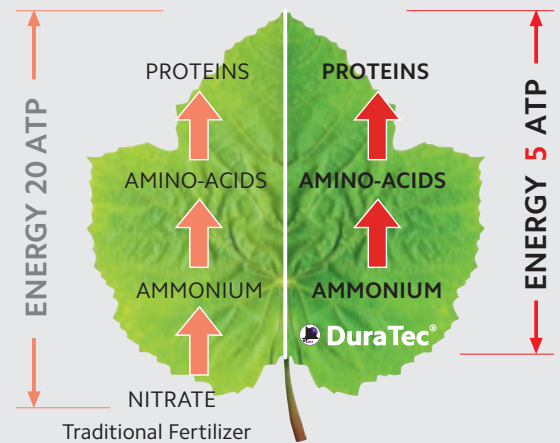
- DuraTec® delays the nitrification of ammonium ( $\text{NH}_4^+$ ) to nitrate ( $\text{NO}_3^-$ )
- DuraTec® leads to a more efficient  $\text{NH}_4^+$ -based N-nutrition
- Environmental benefits: Lower emission of greenhouse gases and reduction of nitrogen leaching





## DuraTec® – Ammonium nutrition

- Energy savings by ammonium-N-nutrition (no biological reduction required)
- Enhanced flowering (ammonium promotes synthesis of phytohormones and polyamines)
- Ammonium nutrition to release nutrients from the soil (under high pH conditions)



ATP = Adenosine Triphosphate.

ATP is one of the most important energetic carriers in plants.

## Trial results

DuraTec® Top 14: Lettuce/South Africa 2015



Control (standard fertilizer)



1 x 650 kg/ha DuraTec®

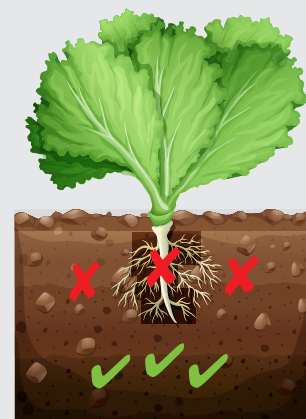


Control (standard fertilizer)



1 x 650 kg/ha DuraTec®

- Just one application of 650 kg/ha DuraTec® Top 14 of planting
- Best results → placement of DuraTec® underneath the plant (see image)
- Excellent ROI on extra cost due to:
  - Significantly higher yields → 74% marketable heads vs. 63% (conventional)
  - 7–10 days reduction of crop cycle
  - Substantial savings on operational cost and labour



Best results → placement of DuraTec® underneath the plant

## DuraTec® product range\*

	Product	Composition	Characteristics	Packaging
	DuraTec® Top 14	14-7-14 (+ 2 MgO + 22.5 SO <sub>3</sub> ) + 0.02 % B + 0.06 % Fe + 0.01 % Zn	15 % coated granules 85 % stabilized NPK 2-4 mm	<p>All products available in 25 kg bags</p> <p>Pallet size: 42 bags of 25 kg</p> <p>Container: 20x21 mt</p> <p>Available in big bags on request</p>
	DuraTec® Top 21	21-5-9 (+ 2 MgO + 15 SO <sub>3</sub> ) + 0.02 % B + 0.25 % Fe + 0.015 % Zn	15 % coated granules 85 % stabilized NPK 2-4 mm	
	DuraTec® Top 24	24-5-5 (+ 2MgO + 12.5 SO <sub>3</sub> ) + 0.02 % B + 0.06 % Fe + 0.01 % Zn	15 % coated granules 85 % stabilized NPK 2-4 mm	
	DuraTec® Top 12	12-12-17 (+ 2 MgO + 20 SO <sub>3</sub> ) + 0.02 % B + 0.06 % Fe + 0.01 % Zn	20 % coated granules 80 % stabilized NPK 2-4 mm	
	DuraTec® Top 15	15-10-15 (+ 1.4 MgO + 17.5 SO <sub>3</sub> ) + 0.01 % B + 0.04 % Fe + 0.04 % Zn	30 % coated granules 70 % stabilized NPK 2-4 mm	
	DuraTec® Top 20	20-10-10 (+ 15 SO <sub>3</sub> )	20 % coated granules 80 % stabilized NPK 2-5 mm	

\*For detailed recommendations please contact your local COMPO EXPERT dealer/agent.