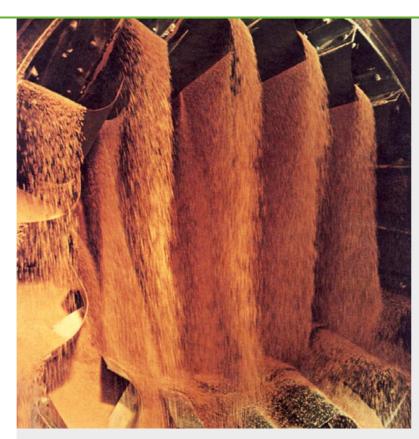




Blaukorn®/NovaTec® general benefits

- Premium quality granular complex compound fertilizers.
- All granules containing N, P, K, Mg, S and trace elements.
- Low chloride (potassium from SOP).
- Fast acting Nitrogen source with both ammonium and nitrate N.
- Perfect granulometry (90% granules within 2–4 mm) for even application.
- Highly available source of phosphate (>80% water-soluble).
- Low in dust and high in granule strength for best spreading properties.
- Available in common nutrient efficiency (Blaukorn®) or in enhanced nutrient efficiency (NovaTec®).
- German quality packaging.



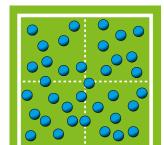
Blaukorn® physical and chemical properties

Advantages of complex compounds vs blended compounds

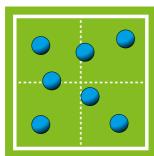
- No differential segregation of granules.
- Superior homogenous nutrient distribution in the field.
- More accurate spreading is possible.
- High nutrient efficiency.
- Easier and labour saving handling.
- Less storage capacity required.

Homogenous granulometry 2-4 mm for superior distribution

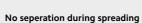
special crops

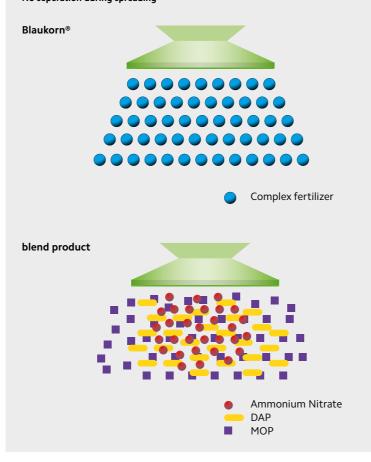


extensive crops

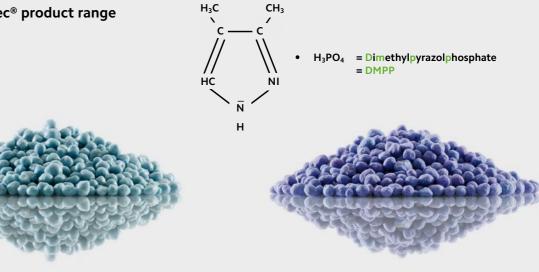


2-5 mm 2-4 mm





Blaukorn®/NovaTec® product range





Blaukorn® range

- Blaukorn® Classic 12-8-16 (+3+TE) Blaukorn® 12-12-17 (+2+TE)
- Blaukorn® Pro 14-7-17 (+2+TE)
- Blaukorn® Premium 15-3-20 (+2+TE)
- Blaukorn® Suprem 21-5-10 (+3+TE) ■ Blaukorn® N-Max 24-5-5 (+2+TE)



NovaTec® range (with DMPP)

- NovaTec® 12-12-17 (+2+TE)

NovaTec® Classic 12-8-16 (+3+TE)

- NovaTec® Pro 14-7-17 (+2+TE) NovaTec® Premium 15-3-20 (+2+TE)
- NovaTec® Suprem 21-5-10 (+3+TE)
- NovaTec® N-Max 24-5-5 (+2+TE)

Blaukorn®/NovaTec® application guidelines

Crop	Annual demand	Application frequency per year		
	Blaukorn®/NovaTec® (kg/ha)	Blaukorn®	NovaTec®*	
Greenhouse vegetables	800-2000	3–4	2–3	
Brassicae	1600-2500	3-4	2–3	
Lettuce, carrots, onions	700–1200	2	1–2	
Strawberries	700–1000	2	1	
Fruit trees	300-800	2	1	
Soft fruits	600-1100	2	1	
Grapevines	300-600	2	1	
Potatoes	500–1200	2–3	1–2	

For detailed recommendation please contact your local Blaukorn®/NovaTec® dealer/agent.

- * For superior performance and results, NovaTec® should be used in place of Blaukorn® particularly under any of the following conditions.
- Free draining soil
- Close proximity to water courses or sensitive habitats.

Sparse/shallow rooting system (e.g. potatoes, lettuce)

High soil pH

What is NovaTec®

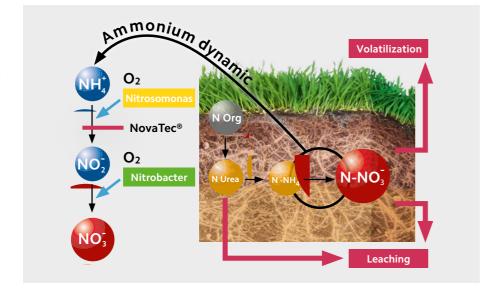
- NovaTec® is the COMPO EXPERT innovation in granular compound NPK-fertilizer stabilized with DMPP (3.4 Dimethylpyrazolphosphate).
- DMPP protects Ammonium-N from quick conversion into Nitrate-N.
- NovaTec® will ensure constant supply of both forms of Nitrogen (ammonium and nitrate).

Benefits

- Lower N losses from leaching and volatilisation.
- Reduced number of applications required.
- Improved yield and quality due to extended N supply and increased ammonium nutrition.
- Positive pH effect in the root zone (acidification of the rhizosphere gives superior P and micronutrient availability).
- Crops develop and ripen more evenly due to a stabilised N supply.
- Can help to reduce free nitrate levels in fresh mass.

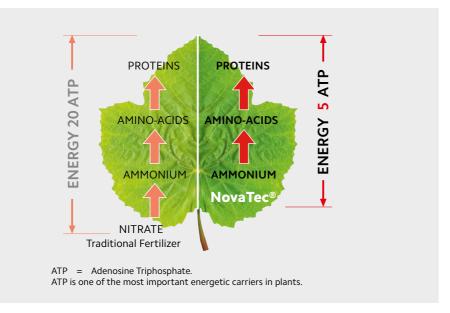
Ammonium-based fertilization with nitrification inhibitor

- NovaTec® delays the 1st step of nitrification oxidation of ammonium (NH_4^+) to nitrite (NO_2^-).
- NovaTec® leads to a more efficient NH₄+-based N-nutrition
- Environmental benefits: 50% reduced emission of greenhouse gases and reduction of nitrate leaching.



NovaTec® – ammonium nutrition

- Energy savings by Ammonium-N-nutrition (no biological reduction of nitrate required).
- Enhanced flowering (ammonium promotes synthesis of phytohormones and polyamines).
- Ammonium nutrition favours root growth.
- Ammonium based nutrition can help to reduce nitrate levels in fresh produce.
- Use of NovaTec® results in deeper green colouring in leafy salads and vegetables.



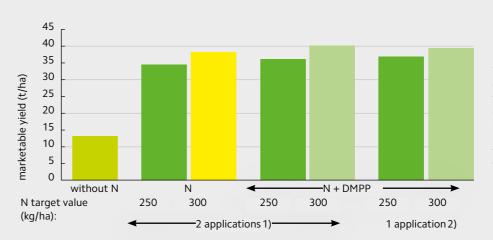
Trial results

Effect of NovaTec® on yield of fruits and vegetables

During the past twenty years many trials have been conducted on agricultural and horticultural crops to evalutate the benefit of NovaTec®. In fruits and vegetable trials with crops like salads, cauliflower, cabbage, onions, apple, peach, citrus, potatoes, grapes, etc. NovaTec® showed an increase of marketable yield, often combined with reduced nitrate level in the biomass.

NovaTec® improves the Nitrogen Use Efficiency (NUE): Use Less and achieve more!

Stabilized fertilizers in cauliflower



There is a positive effect of DMPP treatment on yield compared with standard NPK-application (2 applications). And even with only one application containing DMPP the yield is still higher than with standard NPK-application (2 applications). The nitrate concentration in the plants is significantly lower in the DMPP treatment compared to standard treatment.

1) 50% at planting + 50% at GS 17/19

2)100% at planting





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Growth of lettuce when fertilized with NovaTec®



- Compact growth.
- Better storability and shelf life.

Application in potatoes

80 kg/ha N

120 kg/ha N

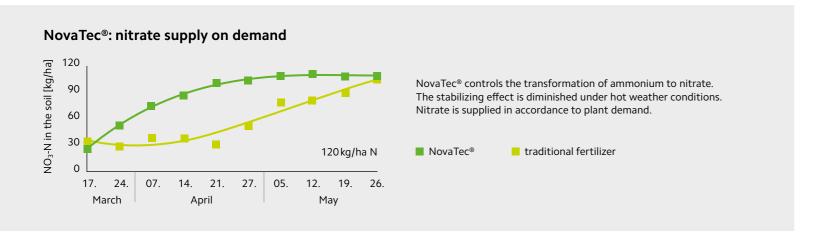
120 kg/ha N

NovaTec®

0 1–8 10 11–19 40 65 85 97

Stages of development after BBCH

NovaTec®: ensures the N supply, even when applying in early growth stages.



Blaukorn®: Complex NPK-fertilizer with potassium sulfate (SOP), magnesium and micronutrients. For basal and complementary dressing in chloride sensitive crops and on salt-affected soils; in horticulture and special crops outdoor and under glass.

NovaTec®: Complex NPK-fertilizer with nitrification inhibitor DMPP (3.4-dimethylpyrazolphoshate). Reduces N-leaching and increases N-efficiency. During the active phase of DMPP (4 to 10 weeks, depending on soil temperature and soil humidity) the transformation of ammonium to nitrate is delayed. As a result N-availability is further adapted to the plants requirements and N-efficiency is increased. Fertilizer based on SOP, for usage in chloride sensitive crops and on salt-affected soils.

	Product	Composition	Packaging
	Blaukorn®/NovaTec® Classic	12-8-16 (+3+23) and trace elements	
Blaukorn' Classic Classic 12-8-16 (43-11) 12-8-16 (43-11)	Granules, 90% < 4 mm	NPK (MgO, SO ₃) complex fertilizer 12-8-16 (+3+23) with micronutrients	
	Blaukorn®/NovaTec® 12-12-17	12-12-17 (+2+21) and trace elements	Bag: 25 kg
Blaukorn* 12-12-17 12-12-17 12-12-17 12-12-17 12-12-17 12-12-17 12-12-17	Granules, 90% < 5 mm	NPK (MgO, SO ₃) complex fertilizer 12-12-17 (+2+21) with micronutrients	Pallet: 25 kg x 42 = 1,050 kg Container: 20 x 1,050 kg = 21 t Bag: 50 kg Pallet: 50 kg x 25 = 1,250 kg Container: 16 x 1,250 kg = 20 t or
			Pallet: 50 kg x 24 = 1,200 kg
	Blaukorn®/NovaTec® Pro	14-7-17 (+2+23) and trace elements	Container: $20 \times 1,200 \text{ kg} = 24 \text{ t}$
Blaukorn° Pro NovaTec' Pro 14-7-17 (+2-11E)	Granules, 90% < 5 mm	NPK (MgO, SO ₃) complex fertilizer 14-7-17 (+2+23) with micronutrients	Big bag: 600 kg for truck delivery 1,000 kg or 1,200 kg truck or container
Blaukorn° Premium 15-3-20 (4-24TB) 15-3-20 (4-24TB)	Blaukorn®/NovaTec® Premium Granules, 90% < 4 mm	15-3-20 (+2+23) and trace elements NPK (MgO, SO ₃) complex fertilizer 15-3-20 (+3+23) with micronutrients	

For detailed information on application data please get in touch with your local supplier.

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Composition



Blaukorn* N-Max







Blaukorn®/NovaTec® Suprem	21-5-10 (+3+15) and trace elements	Bag:	25 kg
Granules, 90% < 4 mm	NPK (MgO, SO ₃) complex fertilizer 21-5-10 (+3+15) with micronutrients	Pallet: Container:	25 kg x 42 = 1,050 kg 20 x 1,050 kg = 21 t
		Bag:	50 kg
		Pallet:	$50 \text{ kg} \times 25 = 1,250 \text{ kg}$
		Container: or	16x1,250 kg = 20t
		Pallet:	50 kg x 24 = 1,200 kg
		Container:	20 x 1,200 kg = 24 t
Blaukorn®/NovaTec® N-Max	24-5-5 (+2+11) and trace elements		
Granules, 90% < 5 mm	NPK (MgO, SO ₃) complex fertilizer 24-5-5 (+2+11) with micronutrients	Big bag:	600 kg for truck delivery 1,000 kg or 1,200 kg truck or container

Packaging

For detailed information on application data please get in touch with your local supplier.