



NovaTec® Solub

Next generation water soluble fertiliser.



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NovaTec® Solub



NovaTec® Solub water-soluble fertilisers deliver optimum nutrition made possible by NET (Nitrogen Efficient Technology). NovaTec® Solub water-soluble fertiliser is uniquely different compared to the next best competitor as it utilises DMPP (3,4-dimethyl-1H-pyrazole phosphate) nitrification inhibitor with up to 10 weeks longevity.

100% solubility provides consistent and reliable performance delivering precise nutrients for your turf growth needs.

Easy and safe to apply with many tank mix options and flexible application rates to enable turf managers to achieve best possible results.



Benefits for plant growth.

NovaTec® Solub increases plant availability of phosphate & micro nutrients due to acidification of the rhizosphere by ammonium uptake instead of nitrate uptake.

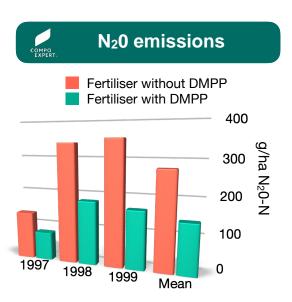
Less energy consumption in N-metabolism of the plant is achieved due to partial NH₄- nutrition. Energy usually required for nitrate reduction are then used for other processes of plant metabolism.







Effects of DMPP on N₂0 emissions.



As a result, N availability is further adapted to the plants' requirements and N efficiency is increased with lower emissions achieved.

NovaTec® Solub nitrification inhibitor reduces N leaching and increases N efficiency.

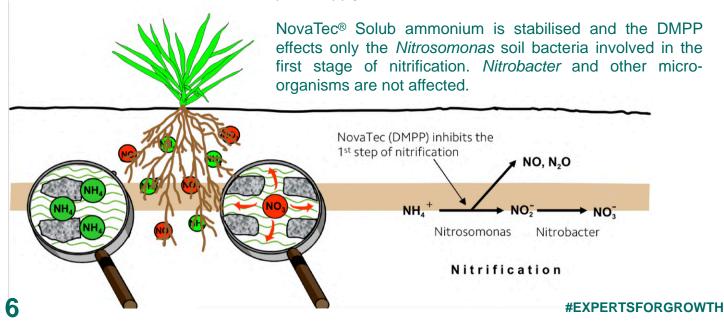
During the active phase of DMPP (4-10 weeks, depending on soil temperature, soil type and soil humidity), the transformation of ammonium to nitrate is delayed.





DMPP - mode of action.

NovaTec® Solub results in a more efficient nitrogen use compared to conventional fertilisers. Nitrogen losses through nitrate leaching are minimised and a better adapted plant supply is achieved.





Weather based release nutrition.

The chart below shows the influence of soil temperature on NH₄ nitrification after applications of ammonium sulphate nitrate and both ammonium sulphate nitrate & DMPP together.

ASN is rapidly used up by the plant within week 4 at 15°C whereas as ASN+DMPP has only used up 81% after 8 Weeks at 20°C. This means less leaching, less volatilisation and more environmentally friendly nutrition.

	Ammonium Sulphate Nitrate			Ammonium Sulphate Nitrate + DMPP		
Soil temperature	Week 2	Week 4	Week 8	Week 2	Week 4	Week 8
5°C	6%	12%	25%	0%	0%	0.5%
10°C	14%	27%	55%	7%	14%	28%
15°C	51%	100%	100%	14%	27%	54%
20°C	100%	100%	100%	20%	40%	81%



Products.

All products in the NovaTec® Solub range contain DMPP nitrification inhibitor (NET) that ensures greater nitrogen use efficiency as well as agronomic advantages & higher productivity, solubilisation of micro-elements and lateral branching of roots.

The extra contribution of trace elements & biological support provide optimal nutrition & biology, helping the plant to reach its maximum potential.





NovaTec® Solub 21.



NovaTec[®] Solub 21 is a high nitrogen (N) fertiliser with DMPP nitrification inhibitor (NET). 21N - 21% ammonium + S + nitrification inhibitor 3,4-dimethyl-1H-pyrazole phosphate (DMPP).

Analysis	21	0	0	24
kg/ha	N	Р	К	s
20	4.2	0	0	4.8
40	8.4	0	0	9.6
60	12.6	0	0	14.4
80	16.8	0	0	19.2
100	21	0	0	24

Application

Pack size - 25kg
Pack coverage - 1666-10000m2
Application rate - 20-120 kg/ha
Water volume - 400-600 L
Frequency - Every 4-10 weeks*
* depending on environmental factors

Application timing







NovaTec® Solub 21 BS.



NovaTec[®] Solub 21 BS is a high nitrogen (N) fertiliser containing DMPP nitrification inhibitor (NET) with added Bacillus Subtilis E4-CDX[®]. 21N - 21% ammonium + S + nitrification inhibitor 3,4-dimethyl-1H-pyrazole phosphate (DMPP).

Analysis	21	0	0	60
kg/ha	N	Р	К	S
20	4.2	0	0	12
40	8.4	0	0	24
60	12.6	0	0	36
80	16.8	0	0	48
100	21	0	0	60

Application

Pack size - 25kg
Pack coverage - 1666-10000m2
Application rate - 20-120 kg/ha
Water volume - 400-600 L
Frequency - Every 4-10 weeks*
* depending on environmental factors

Application timing







NovaTec® Solub 45.



NovaTec® Solub 45 provide a high nitrogen (N) form of urea that ensures greater efficiency as well as agronomic advantages with DMPP nitrification inhibitor (NET). 45N - 45% urea + nitrification inhibitor 3,4-dimethyl-1H-pyrazole phosphate (DMPP).

Analysis	45	0	0
kg/ha	N	Р	К
20	9	0	0
40	18	0	0
60	27	0	0
80	36	0	0
100	45	0	0

Application

Pack size - 25kg
Pack coverage - 1666-10000m2
Application rate - 20-120 kg/ha
Water volume - 400-600 L
Frequency - Every 4-10 weeks*
* depending on environmental factors

Application timing







NovaTec® Solub N-Max.



NovaTec[®] Solub N-Max 19-5-5 is a water soluble NPK compound fertiliser with magnesium, sulphur & a complete trace element package. High N content.19N - 16 % ammonium, 3 % nitrate - 5P - 5K + 2MgO + S, B, Cu, Fe, Mn, Mo, Zn + nitrification inhibitor 3,4-dimethyl-1H-pyrazole phosphate (DMPP).

Analysis	19	5	5	2	40
kg/ha	N	Р	К	MgO	s
20	4.2	1	1	0.4	8
40	8.4	2	2	0.8	16
60	12.6	3	3	1.2	24
80	16.8	4	4	1.6	32
100	21	5	5	2	40

Application

Pack size - 25kg
Pack coverage - 1666-10000m2
Application rate - 20-120 kg/ha
Water volume - 400-600 L
Frequency - Every 4-10 weeks*
* depending on environmental factors

Application timing







NovaTec® Solub K-Max.



NovaTec® Solub K-Max 10-5-30 is a water soluble NPK compound fertiliser with magnesium and sulphur. High N content. 10N - 6 % ammonium, 4 % nitrate - 5P - 30K + 2MgO + S, B, Cu, Fe, Mn, Mo, Zn + nitrification inhibitor 3,4-dimethyl-1H-pyrazole phosphate (DMPP). NovaTec® Solub K-Max 10-5-30 is the ideal N:K ratio of 1:3, perfect for managing heat & drought stress.

Analysis	10	5	30	2	12
kg/ha	N	Р	К	MgO	s
20	2	1	6	0.4	2.4
40	4	2	12	0.8	4.8
60	6	3	18	1.2	7.2
80	8	4	24	1.6	9.6
100	10	5	30	2	12

Application

Pack size - 25kg
Pack coverage - 1666-10000m2
Application rate - 20-120 kg/ha
Water volume - 400-600 L
Frequency - Every 4-10 weeks*
* depending on environmental factors

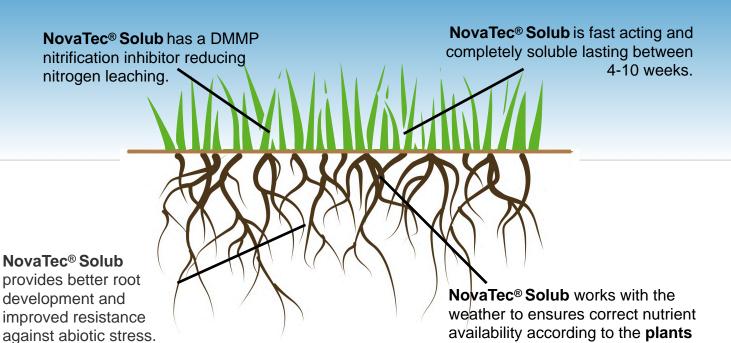
Application timing





NovaTec[®] Solub

Summary.



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requirements.





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