



Equilibrated fertilizer-granulation is important for the turf to be fertilized evenly. In fact, granulation directly influences quality appearance of the turf and uniformity of the turf area, which is the most important thing we expect from our turf and is what new FENIX fertilizers provides.

Fertilizers with Slow-Releasing Nitrogen

Professionals are interested in long-term and equal accessibility of nutrients. They don't want all nitrogen to act at once. FENIX contains two different forms of controlled nitrogen-release, CRF and MU.

using phosphorous fertilizers? Do you want to use the ratio of nutrients suitable for fast-growing newly-seeded areas? Or do you prefer higher potassium-content with your fertilizer? You will always find the answer in the FENIX product-range. FENIX fertilizers are based on the requirements of professional turf-growers and are designated for turfs. FENIX fertilizers contains magnesium, an important element for excellent appearance and a good health condition of your turf.

FENIX Fertilizers - BORN FOR GROWING

These fertilizers have been developed using the most recent theoretic knowledge acquired both in the research with experts in nutrition of plants and from practical experience of greenkeepers and lawn-installers. They are ideal for adequate fertilization planing.

Advantages:

- A sufficient nitrogen ratio is in easily acceptable forms. That's why turf growth has been significantly reacting already within one week since fertilization.
- A part of nitrogen is in the form that starts to progressively act with some delay to provide for equal nutrition for some 2 3 months after applying the fertilizer.
- The fertilizers are conceived (with their nutrients' ratio) to respect different requirements of plants according to their growth and changeable conditions in different seasons of the year.
- 4 applications have a similar effect like 14 applications of classical fertilizers.
- It helps have abundant, strong, healthy, richly green turf.
- They help reduce stress summer dryness and drought, winter frost and chill.
- The calibration of their granules ensures a much better equal application of the fertilizers.

Use:

Particularly for golf courses and their fairways, rough, grassy sporting playgrounds. We recommend its use for turfs requiring a high-quality growth state, permanent and equal growing with simultaneously decorative appearance.

One application provides for equal nutrition for a period of 2 - 3 months. This helps to choose a suitable fertilizer composition, according to current needs of the growth depending on the season of the year, climate conditions and the turf growth condition. There is a choice of fertilizers with controlled nitrogen release (Premium, Pro) or gradual nitrogen release (Balanced), happening either using polymer coat on the urea or chaining molecules of urea (Balanced). Those special forms will provide a prolonged time of the fertilizer effect.

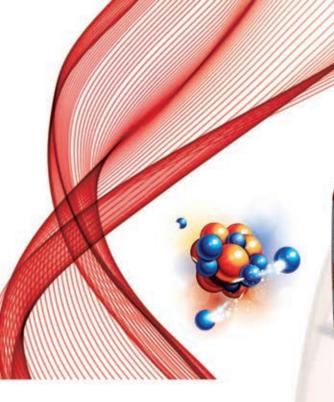
Nitrogen is gradually-released for the needs of plants to minimise nitrogen loses when fertilizing. The greatest advantage of those fertilizers is their ability of always choosing a suitable fertilizer composition. At the same time, just 3-4 applications are needed during the year to have equally growing turf. Compared to standard fertilizers, where you have to fertilize your turf about 14 times a year. Contrary to fertilizers with a whole-year action, the ratio of nutrients can be gradually changed during the



year according to the current status of your turf grown, soil conditions and especially in compliance with variable climate conditions (spring, summer, autumn). That's why these fertilizers allow you to react to changing vegetation needs during the year.

The fertilizers don't contain nitrogen in the nitrate form (NO3) to minimise nitrates being washed out of soil. Moreover, gradually releasing coated nitrogen allows for less frequent fertilization with simultaneously limiting its losses. Its granules are standard-calibrated to 2-3 mm or 1-2,2 mm. That very limited interval of the granule-size provides for the fertilizer to be applied much more equally.



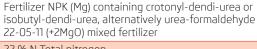


FENIX Balanced Spring 22-05-11+2Mg0

FENIX Balanced Spring



40% MU 21-3 20 KG





6,6 % N-NH4 Ammonia nitrogen

6,6 % N-NH2 Urea nitrogen

8,8 % N Urea-formaldehyde nitrogen

3,3 % N Nitrogen of urea-formaldehyde soluble just

4,6 % N Nitrogen of urea-formaldehyde soluble just in cold water

5 % P₂O₅ Phosphorus pentoxide soluble in neutral ammonium citrate and in water (= 2,2 % P Phosphorus)

4 % P₂O₅ Phosphorus pentoxide, water-soluble (= 1,7 % P Phosphorus)

11 % K₂O Potassium oxide, water-soluble (= 9,1 % K Potassium)

2 % MgO Magnesium oxide, water-soluble (= 1,2 % Mg Magnesium)

FENIX Balanced

slow release fertilizer

Balanced Range

The unique range of fertilizers using long-term effect of nitrogen incorporated in oligomers with different length, composed of chained urea molecules.

This range differs from the Pro- and the Premium product-ranges because of containing 40 % of the total nitrogen quantity in the form of MU (chained urea). It is a fertilizer with gradually releasing nitrogen due to microbial activity in the ground. This will allow the fertilizer to have effect for a longer period of time.

The fertilizers in this product range contain phosphorus in special formulas suitable for all times of year for a more balanced supply of phosphorus to plants. In addition, the Balanced product-range is also typical for its complex contents of all basic nutrients: N, P, K, Mg, S. Another advantage of the Balanced fertilizer-range consists of its reduced content of chlorides to minimise the risk of over-salting soil with ballast chlorides.

The MU nitrogen-form is just little mobile in the ground so washing nitrogen out of soil is really limited even in highly permeable sandy soils of playing areas or courses.

FENIX Balanced Summer 19-08-19+2Mg0

FENIX Balanced Summer

40% MU 2=3 20 KG



Fertilizer NPK (Mg) containing crotonyl-dendi-urea or isobutyl-dendi-urea, alternatively urea-formaldehyde 19-08-19 (+2MgO) mixed fertilizer

19 % N Total nitrogen

3,6 % N-NH₄ Ammonia nitrogen

7,8 % N-NH2 Urea nitrogen

7,6 % N Urea-formaldehyde nitrogen

2,9 % N Nitrogen of urea-formaldehyde soluble just in hot water

3,9 % N Nitrogen of urea-formaldehyde soluble just in cold water

8 % P₂O₅ Phosphorus pentoxide soluble in neutral ammonium citrate and in water (= 3,5 % P Phosphorus)

7 % P₂O₅ Phosphorus pentoxide, water-soluble (= 3 % P Phosphorus)

19 % K₂O Potassium oxide, water-soluble (= 15,7 % K Potassium)

2 % MgO Magnesium oxide, water-soluble (= 1,2 % Mg Magnesium)

FENIX Balanced Autumn 13-05-24+3Mg0

FENIX Balanced Autumn



40% MU 2=3 20 KG



Fertilizer NPK (Mg) containing crotonyl-dendi-urea or isobutyl-dendi-urea, alternatively urea-formaldehyde 13-05-24 (+3MgO) mixed fertilizer

13 % N Total nitrogen

3,4 % N-NH₄ Ammonia nitrogen

4,4 % N-NH2 Urea nitrogen

5,2 % N Urea-formaldehyde nitrogen

2 % N Nitrogen of urea-formaldehyde soluble just in hot water

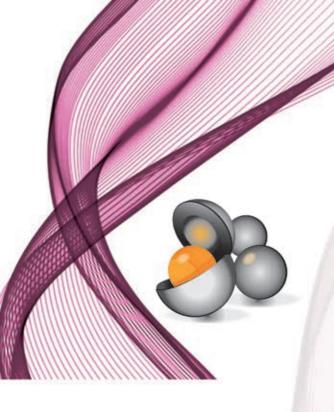
2,7 % N Nitrogen of urea-formaldehyde soluble just in cold water

5 % P₂O₅ Phosphorus pentoxide soluble in neutral ammonium citrate and in water (= 2,2 % P Phosphorus)

4 % P2O5 Phosphorus pentoxide, water-soluble (= 1,7 % P Phosphorus)

24 % K₂O Potassium oxide, water-soluble (= 20 % K Potassium)

3 % MgO Magnesium oxide, water-soluble (= 1,8 % Mg Magnesium)



FENIX Premium

controlled release fertilizer

Premium Range

The unique range of fertilizers to achieve equal nutrition of good turf areas.

This range contains 50 % of the total nitrogen quantity, in form of urea granules coated with a polymer layer, a special coat for the fertilizers' long-lasting effect.

The range also emphasises a different ratio of basic nutrients according to different seasons of the year. The Premium fertilizer-range has an increased content of magnesium, compared to the Balanced product-ranges, giving the turf a lot richer green coloration. In addition, the Premium fertilizer-range is typical for its complex content of all basic nutrients: N, P, K, Mg, S.

Another great advantage of the fertilizers in the Premium product range is its chloride-free nature. In fact, they don't burden soil with chlorides and they minimise the risk of over-salting the ground. That's why this range of fertilizers is the most suitable for really highly intensively fertilized playing areas or courses, for turfs with insufficient drainage and on salted soils.

FENIX Premium Spring 22-05-11+3Mg0











Fertilizers NPK (Mg) 22-05-11 (+3MgO) mixed fertilizer, with a low chlorine content: 22% N Total nitrogen

22 % N Total nitrogen

5,2 % N-NH₄ Ammonia nitrogen 16,8 % N-NH2 Urea nitrogen

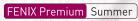
5 % P₂O₅ Phosphorus pentoxide soluble in neutral ammonium citrate and in water (= 2,2 % P Phosphorus)

4 % P2O5 Phosphorus pentoxide, water-soluble (= 1,7 % P Phosphorus)

11 % K₂O Potassium oxide, water-soluble (= 9,1 % K Potassium)

3 % MgO Magnesium oxide, water-soluble (= 1,8 % Mg Magnesium)

FENIX Premium Summer 19-00-19+3Mg0











Fertilizers NK (Mg) 19-19 (+3MgO) mixed fertilizer, with a low chlorine-content

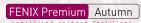
19 % N Total nitrogen

2,5 % N-NH4 Ammonia nitrogen 16,5 % N-NH2 Urea nitrogen

19 % K₂O Potassium oxide, water-soluble (= 15,8 % K Potassium)

3 % MgO Magnesium oxide, water-soluble (= 1,8 % Mg Magnesium)

FENIX Premium Autumn 13-00-26+3Mg0











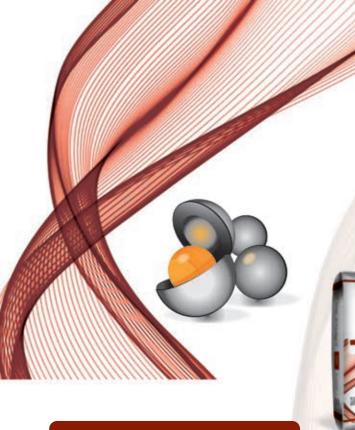
Fertilizers NK (Mg) 13-26 (+3MgO) mixed fertilizer, with a low chlorine-content

13 % N Total nitrogen

2,1 % N-NH₄ Ammonia nitrogen 10,9 % N-NH2 Urea nitrogen

26 % K₂O Potassium oxide, water-soluble (= 21,6 % K Potassium)

3 % MgO Magnesium oxide, water-soluble (= 1,8 % Mg Magnesium)



FENIX Pro

controlled release fertilizer

Pro Range

The Fenix Pro product line has been designed to provide uniform nutrition to professional turf.

Fenix Pro is characterized by a greater amount of controlled-release nitrogen from 40% to 47% in the form of CRF, composed of granules of urea coated with a layer of polymer, thereby ensuring a prolonged effect of the fertilizer. The line mainly focuses on the ratio of nutrients based on different seasons of the year and thus the needs of the turf.

In addition to all the basic nutrients: N, P, K, S, the Pro line has an increased magnesium content which keeps the grass greener. It is intended for regularly fertilized lawns, requiring a fresh and green appearance at all times.

Two products of this line have been developed with finer granulation, perfectly adapted to closer cut turf and at the same time ensuring more uniform spreading.

Fenix Pro fertilizers are low in chlorine, thus limiting the risk of excess soil salinity.











NPK (Mg,S) fertilizer 19-19-5 (+2MgO+18SO₃) blend, low in chloride

19 % N Total nitrogen

10 % N-NH4 Ammoniacal nitrogen 9 % N-NH2 Urea nitrogen

19 % P₂O₅ Phosphorus pentoxide soluble in neutral ammonium citrate and in water (= 8,3 % P Phosphorus)

17 % P2O5 Phosphorus pentoxide water-soluble (= 7,4 % P Phosphorus)

5 % K₂O Potassium oxide, water-soluble (= 4,1 % K Potassium)

2 % MgO Magnesium oxide, water-soluble (= 1,2 % Mg Magnesium)

18 % SO₃ Sulphur trioxide water soluble

FENIX Pro Spring&Summer 22-05-11+3Mg0+TE









NPK (Mg,S) fertilizer 22-5-11 (+3MgO+26SO₃) blend, low in chloride

22 % N Total nitrogen

3,5 % N-NH₄ Ammoniacal nitrogen 18,5 % N-NH2 Urea nitrogen

5 % P₂O₅ Phosphorus pentoxide soluble in neutral ammonium citrate and in water (= 2,2 % P Phosphorus)

4 % P2O5 Phosphorus pentoxide water-soluble (= 1,7 % P Phosphorus)

11 % K₂O Potassium oxide, water-soluble (= 9,1 % K Potassium)

3 % MgO Magnesium oxide, water-soluble (= 1,8 % Mg Magnesium)

23 % SO₃ Sulphur trioxide water soluble

FENIX

FENIX Pro Autumn 13-05-16+2Mg0









NPK (Mg,S) fertilizer 13-5-16 (2 MgO, 28 SO₃) blend, low in chloride

13 % N Total nitrogen

7,5 % N-NH4 Ammoniacal nitrogen 5,5 % N-NH₂ Urea nitrogen

5 % P₂O₅ Phosphorus pentoxide soluble in neutral ammonium citrate and in water (= 2,2 % P Phosphorus)

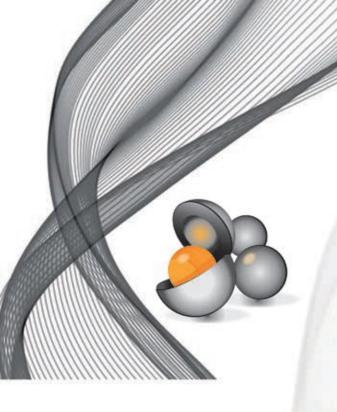
4,5 % P2O5 Phosphorus pentoxide water-soluble (= 1,9 % P Phosphorus)

16 % K₂O Potassium oxide, water-soluble (= 13,2 % K Potassium)

2 % MgO Magnesium oxide, water-soluble (= 1,2 % Mg Magnesium)

28 % SO₃ Sulphur trioxide water soluble





FENIX First 21-05-06+2,5Mg0

FENIX First

25% CRF

2!-3 20 KG



NPK (Mg) fertilizers 21-5-6 (+2,5 MgO) blend, low in chloride

21 % N Total nitrogen

5,8 % N-NH₄ Ammoniacal nitrogen 15,2 % N-NH₂ Urea nitrogen

5 % P₂O₅ Phosphorus pentoxide water-soluble (= 2,2 % P Phosphorus)

4,0 % P₂O₅ Phosphorus pentoxide water-soluble (= 1,7 % P Phosphorus)

6 % K₂O Potassium oxide, water-soluble (= 5 % K Potassium)

2,5 % MgO Magnesium oxide, water-soluble (= 1,5 % Mg Magnesium)

FENIX

controlled release fertilizer

FENIX First & FENIX Basic

Basic professional fertilizers with controlled nitrogen release. Designed for a better start of the season and/or as a boost before the end of the season, in early September.

These fertilizers are characterized especially by their **25% of urea coated and by their excellent price-performance ratio,** granular fertilizers for sports fields, golf courses, fairways, semi-roughs or even ornamental lawns.

Nutrients are mixed in order to achieve the best performance and longevity of the fertilizers. After application, the immediate greening effect will be visible and the polymer-coated nitrogen, CRF technology (First) or the slow nitrogen by the MU technology (Basic), will ensure a long lasting effect.

Fenix fertilizers First and Basic have been developed for use from spring until October on sandy, easily permeable soils with good drainage function and for less intensively maintained lawns.

Fertilizers do not contain nitrogen as nitrate, which limits the risk of leaching.

FENIX Basic 21-05-06+3MgO+TE







Fertilizer NPK (Mg) containing crotonyl-dendi-urea or isobutyl-dendi-urea, alternatively urea-formaldehyde 21-05-06 (+3MgO) mixed fertilizer

21 % N Total nitrogen

8,2 % N-NH4 Ammoniacal nitrogen 7,3 % N-NH2 Ammoniacal nitrogen

5,2 % N-NH2 Nitrogen from urea formaldehyde

2,0 % N-NH₂ Nitrogen from urea formaldehyde that is only soluble in hot water

2,1 % N-NH₂ Nitrogen from urea formaldehyde that is soluble in cold water

5 % P₂O₅ Phosphorus pentoxide water-soluble (= 2,2 % P Phosphorus)

4 % P₂O₅ Phosphorus pentoxide water-soluble (= 1,7 % P Phosphorus)

6 % K2O Potassium oxide, water-soluble (= 5 % K Potassium

3 % MgO Magnesium oxide, water-soluble (= 1,8 % Mg Magnesium)



MU Methylen urea

SHERING MARKET TO THE SHERING

Methylen urea (MU) is special Slow Release Nitrogen obtained through the condensation of urea molecules with formaldehyde under strictly defined conditions, forming polymer chains of different lengths. The nitrogen release of MU is determined by the design of the polymer lengths and the ration between fast acting nitrogen (Water Soluble Nitrogen) and gradual release nitrogen (Water Insoluble Nitrogen). Shorter chains are more soluble and readily available from microbial action. On the other hand, longer chains are more insoluble and require more time to be digested from microbial action in the soil.

Unlike other Controlled Release Nitrogen sources, the bioavailability of MU mainly depends on the soil microorganism activity and mineralization action. MU is a source of organic carbon (life energy) and nitrogen (nutrient) for the soil micro-organisms. Using MU you feed and develop the beneficial microbial population responsible for the natural nitrogen mineralization process (breakdown of polymer chains into simple units). The conditions controlling the root growth and activity of the plants, temperature and humidity, are the same as those that regulate the microbial activity. This means that MU nitrogen is made available when the conditions for root activity and growth are optimal. The release of Nitrogen is in sync with crop needs.

In comparison with coated products, the slow release characteristics of MU products will not be lost if particles "are damaged" or "are broken" during shipping and handling. A gradual release of nitrogen is still assured, without nitrogen loss or dumping.

Furthermore, MU protects groundwater from nitrates and keeps nitrogen originated from fertilizers in the soil profile providing uniform and sustained feeding even in hot weather and heavy rains. This is because the Nitrogen release in MU products is not directly dependent only on temperature or hydrolysis, but it requires the microbial activities as well. MU present in some fertilizers from Fenix line is also a source of slowly available water soluble Nitrogen, a meaningful distinction from looking only at water insoluble nitrogen.

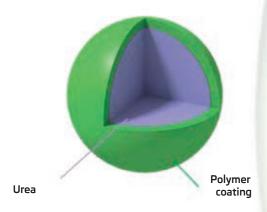




CRF - Controlled Release Fertilizer by the urea polymer coating

Polymer **coating technology** improves efficiency and nutrient availability. The elements release **depends on the humidity and the temperature**, which makes possible to predict the fertilizer's action duration.

Partially modulated by temperature, the semi-permeable coating allows a daily release of nutrients. At high temperature the fertilizer releases more and at low temperature the fertilizer releases less which matches perfectly with plant needs.



Benefits of the nitrogen control release technology by Polymer Coating:

- Reduces leaching risks, volatilization and other forms of fertilizer losses
- Allows a controlled and regular release of the elements according to the soil temperature and humidity
- Reduces maintenance costs by using optimal fertilizer



Due to the soil temperature, polymer pores open up and the moisture enters through the polymer layer



The encapsulated nutrients are dissolved, but not released, which causes a pressure increase inside the pellet



Over time, dissolved nutrients are slowly released by diffusion, only when the polymer pores open up thanks to the soil temperature



After the complete release of nutrients, the polymer coating breaks down by microbial activity into natural soil elements



AGRO CS REFERENCES



Golf courses

France

Valescure Golf Course (St. Raphael 83) Megéve Golf (74)

Germany

Golfclub Wittelsbacher Rohrenfeld
-Neuburg
Golfclub Thailing
Golfclub Schloß Reichertshausen
Golfclub Schloß Fahrenbach
Golfclub Bergkramerhof
Lausitzer Golf Club
Golf in Hude
Wittelsbacher Golfclub Rohrenfeld-Neuburg
Golf City Cologne Pulheim
Golfclub Werdenfels/Garmisch

Austria

Brandlhof Golf Club in Saalfelden Golfclub am Attersee Golfclub Graz-Liebenau Golfclub Innviertel

Italy

Golf Club Castelfalfi

Czech Republic

Casa Serena Golf Club
Greensgate Golf Pilsen
Golf Brno Kaskáda
Prosper Golf Resort Čeladná
Prague City Golf Club
Kšírovka Golf Club
Olomouc Golf Club
about fifty other golf courses
in the Czech Republic

Slovakia

Penati Golf Resort Senica Golf Club Welten Green Resort Hrubá Borša

Romania

Theodora Golf Club (Alba Iulia) Sibiu Golf Club

Turkmenistan

Ashgabat Golf Club





AGRO CS REFERENCES

Football fields/Sports grounds



Lyon City (69), 9 fields City of Roanne (42), 2 fields Roche la Molière (42), 2 fields Givors (69), 2 fields Montanay (69), 1 field Meyzieu (69), 3 fields St. Foy les Lyon (69), 2 fields

Germany

TSV 1860 Munich training ground Tennis Club Weissenhof

Austria

Mauer-Öhling Football Club

Slovakia

Skalica Football Club Zvolen Football Club

Czech Republic

Training fields of the Czech Football Federation

AC Sparta Prague Club
- League One

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Mladá Boleslav Football Club

- League One

Club SK Slavia Prague

- Qualification Europa League 2017/2018 Jablonec Football Club
- Qualification Europa League 2017/2018

Hungary

Putnok Football Club

Slovenia

Brdo National Football Center

Bosnia and Herzegovina

Sarajevo Football Club

We have chosen our best references for playing fields. Among others, we are proud to be able to work with playing fields maintenance companies, particularly in Romania, Turkey, Austria, France and Hungary.

In addition, we work on public projects and other playing fields in our home market and abroad.

Spain

Tennis Club Santa Ponca (Mallorca)

Turkey

Istanbul City







Order

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