

GENEZIS



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Arable land sales representatives:
www.genezispartner.com

GENEZIS

PRODUCT CATALOGUE 2021



FULL RANGE OF AGRONOMIC
SALES AND SERVICES!



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HIGH-QUALITY AGRICULTURAL COUNSELLING AND TRADE

The Genezis Technology includes a wide range of Genezis fertilisers, seeds and pesticides. The special advisors of the Genezis Partner Network help you choose products that are tailored to your special needs.

How can a Genezis Partner representative help you?

- High-quality personalised agricultural counselling regarding the application of fertilisers, seeds and pesticides
- State-of-the-art technologies for nutrient replenishment
- Discount prices for soil inspection, leaf analysis and crop testing
- Produce buy-up from small scale and licensed producers at competitive daily prices with forward or spot buying
- Outstanding value for money
- Nation-wide supply with more than 50 sales representatives across the country
- Flexible and quick administration
- Own logistics fleet


GENEZIS

Partner Network


www.genezispartner.com

For more information please
contact the sales representatives of Genezis Partner Network!

D E A R P A R T N E R ,

As indicated by forecasts, Hungarian agriculture has been using an increasing amount of active ingredients in fertilisers from year to year and is catching up with western Europe, which is necessary for achieving extraordinary yields and implementing effective agricultural production.

We are on the right track but there is still room for improvement.

We believe that working together with the farmers is essential for growth and development. Therefore, our aim is to share our decades of professional knowledge for promoting a more efficient and sustainable agriculture.

Nitrogénművek Zrt has been involved in continuous investments and developments throughout its 90-year history. Innovations spanning several decades allow our products to be among the best in the world and meet the most stringent quality requirements.

Our flagship product within our range is Péti Pétisó which many people think is identical with a fertiliser. With its 27% nitrogen content and high calcium and magnesium content, this product is indispensable for state-of-the-art agricultural production.

We produce and distribute a complete range of nitrogen fertilisers such as sulphurous Péti Pétisó, Urea, Nitrosol, Ammonium nitrate and Péti Péti. Moreover, the full range of NPK fertilisers is produced in Bige Holding's factory in Szolnok.

Irrigation and foliar fertilisers for arable crops and horticultural plants are produced by Péti Nitrokomplex Kft. Our excellent products are sold by the sales representatives of Genezis Partner Network who also provide professional consultancy services for our Partners.



In addition to the distribution of fertilisers, Genezis Partner Network with national coverage is also involved in the sales of pesticides, seeds (cereal, hybrid) and produce buy-up.

Thank you for your successful cooperation and loyalty to our company throughout the years. We wish you success in your farming endeavours!

László Cséri
Sales Director

GENEZIS

PÉTISÓ, PREMIUM QUALITY SINCE 1931, INCREDIBLY HIGH ACTIVE INGREDIENT CONTENT AT 39%!

Pétisó (calcium ammonium nitrate), i.e. 'CAN' is a market-leading solid lime ammonium nitrate (MAS, CAN) fertiliser manufactured since 1931. What makes it different from other preparations is that instead of lime (CaCO_3), finely ground dolomite, which is the double salt of calcium carbonate (CaCO_3) and magnesium carbonate (MgCO_3), is mixed into the product. It has a nitrogen content of 27%, but including its 7% CaO and 5% MgO content, its total active ingredient content is 39%.

Each 1 tonne of Pétisó contains 228 kg of soil improver (dolomite).

CaCO_3 and MgCO_3 are insoluble in water, but when combined with various acids (carbonic acid, soil acids, root acids and nitric acid) they become water-soluble compounds and can thus be absorbed by plants. To make this process easier, the dolomite is mixed into the fertiliser in a finely ground form. The average particle size of dolomite powder is 40 micrometres.

Due to its dolomite content, it is especially effective in acidic soils and through its calcium and magnesium content it improves the soil structure.

It is especially recommended for fertilising magnesium-intensive crops – potatoes, sugar beet, perennial legumes, maize, rapeseed, oats, horticultural plants and herbs!

The dolomite in Pétisó increases the calcium and magnesium



content of the soil and stabilises its reaction. This is important, because soil acidification is the most extensive degradation process in Hungary.

Soil acidity affects 2.2-2.3 million hectares of land in Hungary. 43% of our soils are slightly acidic and 13% are heavily acidic in Hungary, and the proportion of this latter one has been on the rise. Such soils are mostly in the western and southern half of Transdanubia, in the Northern Central Mountains, in the tributaries of the River Tisza and its water system, and in the

in alluvial areas of the Rába, etc. A soil is said to be acidic when its pH is below 6.8.

There are many reasons for the development of soil acidity:

climatic factors, soil-forming rock, topographic and hydrological conditions of the landscape, biological effects and last, but not least, anthropogenic effects.

Man acidifies the soil with industrial pollution, calcium extracted with the crop and, particularly, inadequate, unreasonable fertilisation.

Lime index of various nitrogen fertilisers	
Fertiliser:	Lime Index
Ammonium sulphate 20.5%	100
Urea 46%	80
Ammonium nitrate 34%	60
Nitrosol 30%	40
Pétisó 27%	10
Pétimészó	-30

Table 1

Although high yields cannot be achieved without high-dose fertilisation, most fertilisers directly or indirectly acidify the soil.

Of those, nitrogen fertilisers acidify most intensively. The acidifying effect of fertilisers is shown by the lime index, which shows how many kilogrammes of calcium carbonate can neutralise the acidifying effect of 100 kg of fertiliser. The lower the lime index, the less acidification is caused by the given fertiliser.

It can be clearly seen that ammonium nitrate acidifies the soil six times more than Pétisó (Table 1).

Pétisó has a very low lime index so, with its regular use, sustainable nitrogen fertilisation may be achieved.

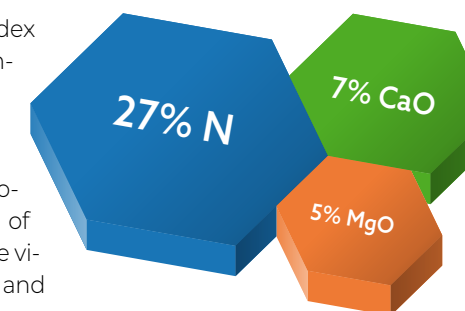
It is advantageous that the dolomite, which is a component of Pétisó, is local to the immediate vicinity of the resulting root acid, and that its fine particle size allows a rapid reaction. As a result, the structure of the soil improves, its ability to supply nitrogen and phosphorus and its supply of micronutrients increase, and soil life intensifies. Thus a higher yield and better yield quality can be achieved. On acidic soils, 100 kg of Pétisó has a better effect than 100 kg of ammonium

nitrate, despite the fact that the latter contains 7 kg more nitrogen!

The nitrogen in Pétisó contains the same proportion of slower-acting ammonium nitrogen and fast-acting nitrate nitrogen, so it can be used as a basal, starter and top dressing on all soil types and crops.

Pétisó is granulated in two ways:

One process is granulation (granulated Pétisó), while the other is prilling (prilled Pétisó). Granular and prilled Pétisó has a typical average grain size of 2.5-6.3 mm and 0.8-4 mm, respectively.



The granular Pétisó has a good temperature tolerance and an ideal particle size distribution. Due to its particle strength and size, it is also excellent for application with more modern, larger working width fertiliser spreaders.

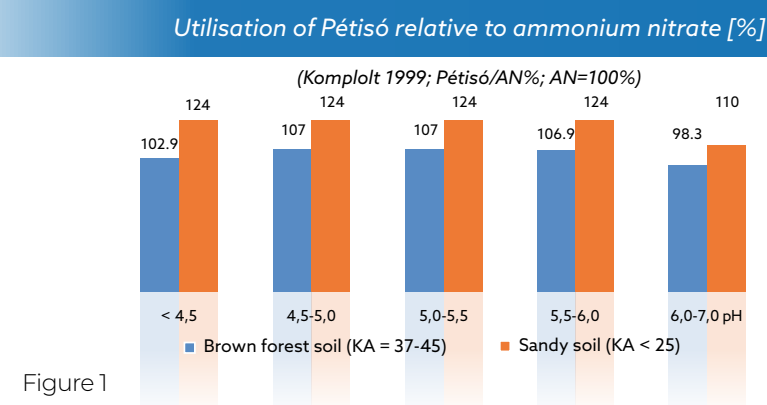


Figure 1

What type of soils should Pétisó be applied on?

It can be used on any type of soil as basal, starter and top dressing. The best choice of use is acidic areas, sandy soils and lands with magnesium deficiency as Pétisó will not introduce additional acid to soils but stabilise their reaction and supplement them with calcium and magnesium. In our small-parcel R&D experiments (university experiments) and in our semi-industrial field experiments, we have been using Pétisó exclusively for years to ensure nitrogen supply replenishment, with excellent results.

When is it recommended to use Pétisó?

Due to its slower rate of water uptake and dissolution, Pétisó provides a continuous nitrogen supply and a good pattern of dispersion in case the dispersion width is more than 24 meters.

When is it recommended to use prilled Pétisó?

The water uptake rate of prilled Pétisó is higher than that of the granulated version – initially equal to that of ammonium nitrate. Consequently, it dissolves as easily as ammonium nitrate and is perfectly suited to late top dressing. Due to its smaller particle size, a higher amount of grain is applied on the land/m² resulting in a better distribution of active ingredients and giving a good pattern of distribution up to a dispersion width of 24 meters.



PÉTISÓ+S, THE PERFECT SOLUTION FOR ADDING NITROGEN, SULPHUR AND CALCIUM AT THE SAME TIME!

Sulphur is an essential nutrient for living organisms and is the fourth largest component, by volume, of plant organisms after nitrogen, phosphorus and potassium.

It is a building block of sulphur-containing amino acids, peptides, proteins, enzymes and vitamins (B1, Biotin, Thiamine). Sulphur is best known for its role in the synthesis of fatty acids, making it particularly relevant for the cultivation of oil-seed crops (rapeseed, sunflower). It increases the green mass and chlorophyll content in appropriate amounts, stimulates the vegetative growth of plants, improves the digestibility and palatability of feed crops. It affects the frost tolerance of plants. In cereals, properly applied sulphur fertilisation increases their value in the baked goods industry. Sulphur enhances the resistance of plants to pests and pathogens, thus improving crop safety.

Sulphur and signs of its absence:

Sulphur deficiency occurs more and more frequently in plants. Its symptoms are similar to nitrogen deficiency, but it first appears on younger leaves.

In the absence of sulphur, the amount of soluble nitrogen compounds increases, the protein content and enzyme functions decrease, i.e. the growth of plants becomes increasingly delayed. The leaves (it appears on young leaves) will turn light green, yellow, reddish (leaf veins and petioles), and the plant will become rigid.



Pétisó+S 27-9:
This product is sold only in Hungary, Poland, Romania, Bulgaria and Serbia.

At the edges of the leaves, a pale green and then a yellowish discolouration begins and it moves inwards until eventually the leaf dies. Initially, on the faded light green leaves, the leaf veins are yellow. The stem is thin, the stock has elongated.

Chlorosis caused by sulphur deficiency is very similar to that caused by nitrogen deficiency. The difference is that yellowing due to sulphur deficiency extends to the entire plant. Severe sulphur deficiency causes brown lesions and necrotic symptoms on the petiole.

The death of the leaf begins at its base, reddish discolouration is observed in the dead parts, root formation is abundant, and many branches are present. In this case, the leaves are stiff, brittle, and curl upwards. **Cereals are characterised by leaf chlorosis, weak bushing, delayed ear and flower formation.**

In cruciferous plants, stunting and the formation of long narrow leaf plates are typical symptoms of sulphur deficiency.

Rape will form smaller, yellow, harder leaves and the stem will be thin, hard and stiff. Scattered yellowing occurs on young leaves, sometimes marbled. The leaves are spoon shaped, curled upwards and brittle. There are few flowers and they turn white.

Sulphur can also be important in the cultivation of onions and mustards, because due to its role in the structure of essential oils, the characteristic flavours are also damaged in its absence.



Yellowing caused by sulphur deficiency in wheat.

When added in a favourable ratio, nitrogen and sulphur strengthen each other's effects, helping each other to integrate into the plant.

If you confuse sulphur deficiency with nitrogen deficiency and try to remedy it by adding more nitrogen, you may increase the problem, the relative sulphur deficiency, which will result in an increase in the susceptibility of plants to diseases in addition to the above.

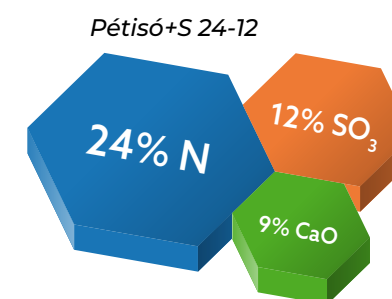
Adequate sulphur supply is of paramount importance for the production of oleaginous plants, failing which both yield and oil content are significantly reduced.

Sulphur deficiency in Europe was only observed by Danish, German and Dutch researchers on cruciferous plants and fruit trees in the late 1980s and early 1990s. In recent years, it has already been reported in Austria that it also appeared on rapeseed and in tobacco plantations in southern Europe.

In Hungary, sulphur deficiency was first encountered in maize around Szolnok, but it has also occurred, e.g. in rapeseed and wheat in Western Hungary since the early 2000s.

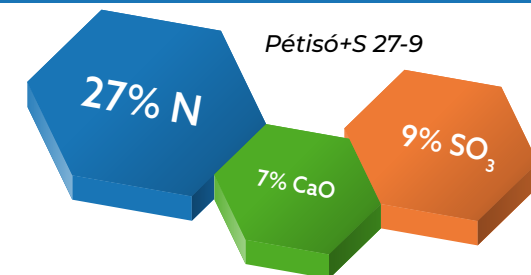
Deficiency symptoms in crop production can be attributed to four main reasons:

- increased use of sulphur-free fertilisers,
- reduced use of sulphur as a plant protection agent,
- reduction of the concentration of sulphur compounds in the atmosphere,
- intensive or unilateral nitrogen fertilisation (N-S ratio).



Due to the decrease in the sulphur supply capacity of the soil and the atmosphere, a decrease in yield and a deterioration of the quality of the yield must be expected in relation to some cultivated crops (e.g. a decrease in the oil content of rapeseed, a deterioration in the baking quality of bread wheat).

Sulphur deficiency in Hungary today is mainly due to the fact that sulphur trioxide (SO₃) emission has greatly decreased. Therefore, Nitrogénművek Zrt. has also started the production of Pétisó, in which it mixes sulphur-containing mineral grit instead of dolomite. This is Pétisó+S. Plants can absorb sulphur in the form of sulphate ion (SO₄²⁻), so a mineral that contains sulphur in the form of calcium sulphate (CaSO₄) is mixed into the product.



Calcium sulphate's solubility in water is relatively poor, which is an advantage in agricultural use because it makes it a slow-acting fertiliser component. A further advantage of the active ingredient calcium sulphate, is that, in addition to sulphur, it contains calcium, which is also a nutrient for plants. Calcium is also essential for normal root growth as, with adequate root mass, plants are more drought and stress resistant and can absorb more water and nutrients. The integration of calcium sulphate also significantly improves the physical properties of the fertiliser; increases the strength and bulk density of the particles and reduces their adhesion.

The need for Pétisó+S

Sulphur-containing Pétisó is produced in two compositions. One is Pétisó+S 24-12 (24% N + 12% SO₃ + 9% CaO) the other is Pétisó+S 27-9 (27% N + 9% SO₃ + 7% CaO). The Pétisó with sulphur content (27% N + 9% SO₃ + 7% CaO) can compensate for early sulphur deficiency in all cultures. Sulphate is similar to nitrate nitrogen in that it is washed away under the young roots by snow and winter precipitation, so early top dressing with sulphur-containing fertilisers is necessary. Increasingly extreme weather and an unbalanced rainfall supply also intensifies sulphur leaching. Later, even oilseed crops are able to absorb sufficient amounts from the lower layer of the soil, the mineralisation of organic matter.

NITROGEN FERTILISERS

PÉTISÓ+S

What environmental and cultivation technology parameters influence the method of sulphur fertilisation and its dose per hectare?

Plant:

The sulphur demand of the cultivated plant and the purpose of cultivation (e.g. utilisation of winter wheat for milling or fodder purposes, high-oleic sunflower).

Soil:

Soil binding, organic matter content (sulphate ion binding on organic and inorganic colloids).

Weather conditions:

In rainy vintages, there is a higher risk of sulphate leaching.

Cultivation method:

- Frequency of crops with high sulphur demand in crop rotation, intensity of cultivation.
- Nutrient sources used, sulphur content of fertilisers applied.
- Intensive or one-sided nitrogen fertilisation (the optimal N:S ratio is modified).

If justified by the above factors, it is strongly recommended to plan sulphur fertilisation for crops with high sulphur needs, where the following must be taken into account:

Date of application and dynamics of sulphur requirements of the cultivated plant:

- It is very important to consider sulphur compounds as nitrogen compounds, because their movement in the soil and in

the plant, as well as the sulphur uptake dynamics of plants, are very similar.

- With autumn basal dressing it is enough to apply 8-10 kg/ha of sulphur even in the case of rapeseed and winter wheat, as the sulphur uptake of young plants is low, and a lot of sulphur can be washed out of the soil by winter precipitation.
- In the case of top dressing, in parallel with the spring application of nitrogen, for crops with high sulphur demand, sulphur should be added in proportion to the nitrogen.

Plants, soil types, fertilisation periods

Most Hungarian soils are not deficient in sulphur, so early spring top dressing (10 kg S/ha or 25 kg SO₃/ha) is sufficient.

Pétisó+S works well on all crops and all soil types. In fact, on sulphur-deficient soils, it can also be used for the early fertilisation of crops with high sulphur needs e.g. rapeseed, sunflower (they also need a lot of calcium). In the next growing season, the utilisation of sulphur is questionable as it washes into the lower layers due to precipitation.



Sulphur-deficient rapeseed flowers turn white and the leaves curl.

Why choose it?

Pétisó+S granular fertiliser. It has an even grain size, can be stored well, has good spreading properties (dispersion, can be sprayed evenly over longer distances).

It has been developed specifically for Hungarian soils, where it is definitely recommended to replace the sulphur, but only in smaller quantities.

Pétisó+S combines 90 years of expertise with state-of-the-art technology to provide a customised solution for those who want to achieve guaranteed crop yields.

Recommended dose: 200-500 kg/ha, depending on the plant species and application method.

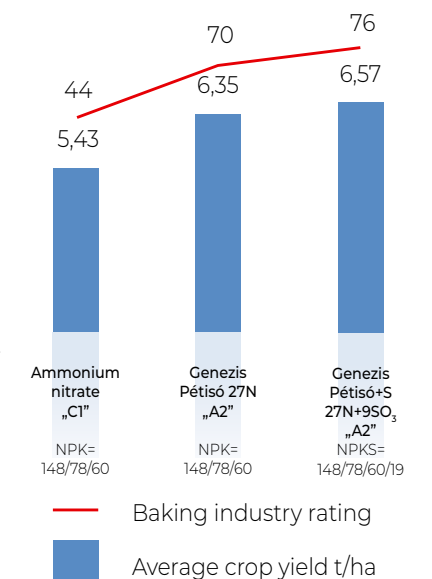


Figure 2



Incredibly high active
redient content at **39%**
engineered for soils in Hungary
Why is Pétisó the perfect fertiliser of choice?



GENEZIS
Fertiliser

GENEZIS
Fertiliser



PÉTIMÉSZSÓ – ADDITION OF MACRONUTRIENTS AND SOIL CONDITIONING AT THE SAME TIME! IT PROVIDES THE PLANT WITH THE NECESSARY AMOUNT OF NITROGEN-CALCIUM-MAGNESIUM AND IMPROVES THE REACTION OF THE ACIDIC SOIL!

Soils with a pH_{KCl} 6.0 are considered to be acidic, in need of lime fertilisation or chemical soil improvement; approx., half of Hungary's arable land falls into that category. Soil acidity is caused by acidic, noncarbonate soil-forming rock, acidifying substances from the decomposition of plant residues with acidic effect, increased leaching due to heavy rainfall and poor soil water retention capacity, atmospheric acid deposition, air pollution, the disposal of acidic waste and the application of fertilisers.

Of the above reasons, it is mostly the ill-considered fertilisation concept of recent decades that we can and must change. It takes only a decade or two (not centuries) to acidify a good productive soil with acidifying fertilisers.

Soil acidity has a detrimental effect on nutrient uptake. The soil is depleted in nutrients and significant amounts of calcium are also leached. In extreme cases, the uptake of elements toxic to plants (aluminium, manganese, iron and heavy metals) increases, while the uptake of phosphorus decreases. The structure of the soil, and thus its water management properties, also deteriorates. The soil will be more prone to compaction, its air management will be poor, and no permanent crumbs will form. The soil will not be able to absorb and drain the increased amount of precipitation.



Soil acidity has a detrimental effect on microbial activity (especially, nitrification is pushed into the background) and thus on nutrient uptake. In view of sustainable agricultural production, we must take actions to curb the soil acidification process caused by the overuse of acidifying fertilisers and a failure to introduce the necessary amount of calcium.

The beneficial effects of improving (liming) acidic soils include an increase in the number of calcium ions in the soil, the reduction of acidity (increase pH), phytotoxicity and crusting, improvement in soil structure, revitalised soil life, improved utilisation of fertilisers and improvement in the quality of generated organic matter.

It should be noted that, without high-dose fertilisation, high yields are no longer achievable these days.

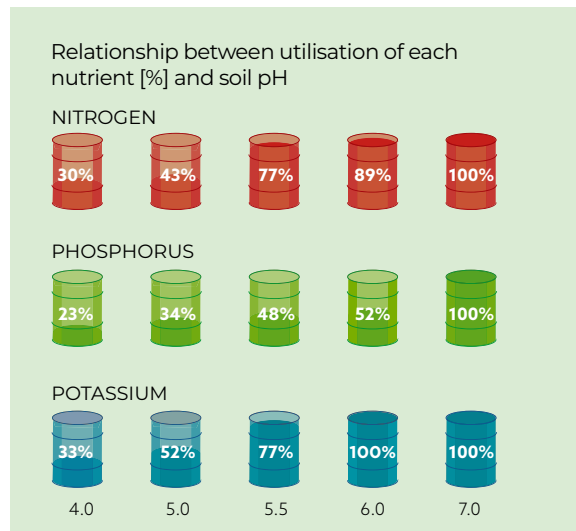


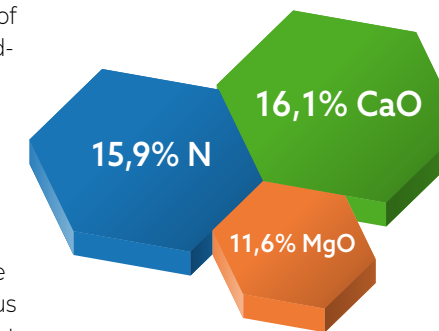
Figure 3

Source: Buckman&Brady

However, most fertilisers have a direct or indirect acidifying effect to a greater or lesser extent. Genezis Pétimészó is a new and innovative nitrogen fertiliser containing calcium and magnesium that reduces soil acidity for soil improving and conditioning, which is a solution not only for stopping soil acidity, but also for chemically improving acidic soils. Moreover, it also supplies the plant with nitrogen and magnesium!

Part of the amount of the conditioner in Genezis Pétimészó counterbalances the acidifying effect of the nitrogen content of the product, while another part raises the pH of the soil towards of the favourable, neutral range. 576 kg of $CaCO_3$, equivalent soil improver, 159 kg of nitrogen and 116 kg of MgO is added to the soil with the application of each tonne of Genezis Pétimészó. Various acids (carbonic acid, soil acids, root acids and nitric acid) convert its calcium and magnesium content into water-soluble compounds which can be absorbed by plants. This can also remedy one of the common problems of acidic sandy

soils: magnesium deficiency. On the other hand, the amount of calcium and magnesium in Genezis Pétimészó covers the need for 10 t/ha of maize or 4 t/ha of sunflower or 4 t/ha of rapeseed or 9 t/ha of wheat. Due to its calcium and magnesium content, it is an excellent solution, especially for magnesium-intensive crops such as potatoes, sugar beet, perennial legumes, maize, rapeseed, cereals (oats), horticultural plants and herbs, and on acidic sandy soils. Genezis Pétimészó, as a preparation that also contains mag-



nesium, improves the supply of magnesium to the plant, has a beneficial effect on the body of animals during feeding and ultimately on the human body through the consumption of animal-based food.

The soil improving active ingredient in the product is alkaline, so it is very effective in increasing the pH of acidic soils. The soil improvement component used in the production of Genezis Pétimészó has a small grain size (20-40 μm) so, due to its huge specific surface area, it can be quickly absorbed in acidic soils and can quickly exert a pH-raising effect. The product improves the structure of the soil, increases its ability to supply nitrogen and phosphorus, and revives soil life.

Available packaging units in addition to Big Bag



The amount of phosphorus that can be absorbed into the soil can increase by up to 20%! Thus a higher yield and better yield quality can be achieved. An experiment was set up on acidic sandy soil (pH_{KCl} = 4.23; pH_{water} = 5.43) to examine the effect of a Genezis Pétimészó dose equivalent to 109 kg/ha of nitrogen active ingredient and 400 kg/ha of calcium carbonate, ammonium nitrate control and the effect of two commercially available soil improvers (for which the nitrogen source was ammonium nitrate). The two commercial soil improvers could not at all or only partially offset the soil acidifying effect of nitrogen from 109 kg/ha of ammonium nitrate. In contrast, Genezis Pétimészó not only offset it, but also raised the pH of the soil and reduced its latent acidity. This is clear evidence of the product's effective and rapid soil improvement.

Genezis Pétimészó is a granular product with a grain size of 2.5-6.3 mm. Its grain solidity is high, its grain size is uniform; its grains are almost completely spherical, so it can be spread with a uniform dispersion even when applied on a large working width. Due to the spherical shape, it is less abrasive to metal parts of the spreader.

Soil acidification effect of ammonium nitrate and its compensation with soil improvers

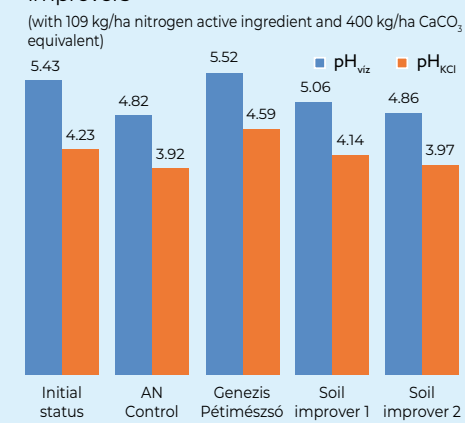


Figure 4

NITROGEN FERTILISERS

GENEZIS AMMONIUM NITRATE

General features: Prilled product, recommended for calcium-rich, neutral or slightly alkaline soils. Suitable for basal and starter fertilisation, and top dressing. Quickly dissolves in water and excellent for late top dressing due to its particulate matter formation.

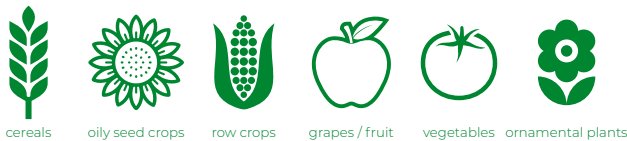
Recommended use: To be applied in a dose of 100 to 500 kgs/hectare as basal, starter and top dressing as per crop requirements and professional advice.

Advantages of the product: Contains nitrogen in the form of ammonium and nitrate for easy uptake by plants.

Recommended crop: Recommended for all arable and horticultural crops.



ACTIVE INGREDIENT CONTENT		
Nitrogen	Ammonium	Nitrate
34%	16,8%	17,2%



NITROGEN FERTILISERS

GENEZIS UREA

General features: An excellent prilled basal and top dressing, ideal for mainly airy soils rich in calcium and with an intense microbiology. Its amide-nitrogen provides a longer effect, so it is also suitable for early top dressing.

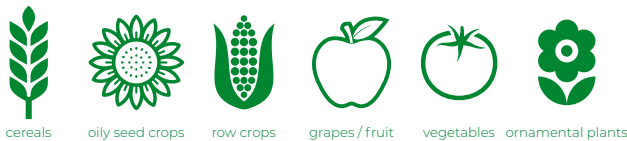
Recommended use: 100 to 400 kgs/hectare as basal and top dressing as per crop requirements and professional advice. Due to the inhibitory effect on germination, application should be made 10-12 days before sowing, and it must be worked into the soil. As a foliar fertiliser, it can be used in a maximum concentration of 1%.

Advantages of the product: Nitrogen fertiliser with the highest concentration. The amide-bound nitrogen slows down its release making it capable of supplying nitrogen for longer periods of time. It dissolves perfectly in water.

Recommended crop: Recommended for all arable and horticultural crops.



ACTIVE INGREDIENT CONTENT
Nitrogen
46%



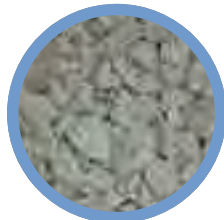
GENEZIS NS 21:24

General features: Excellent compacted basal and top dressing. Popular composition. A fertiliser with high sulphur content to meet special needs. Hygroscopic fertiliser that dissolves in water quickly and easily.

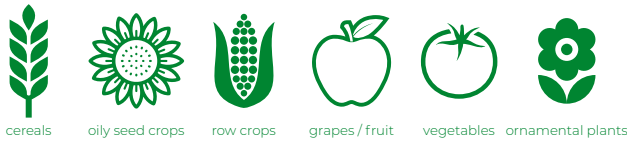
Recommended use: Particularly beneficial for crops with a high sulphur demand (e.g. brassicales, oily plants) in sulphur-deficient areas. 100 to 400 kgs/hectare as basal and top dressing as per crop requirements and professional advice. Excellent for top dressing of winter wheat and winter swede rape in early spring.

Advantages of the product: Contains nitrogen as well as sulphur, therefore, it is excellent to increase protein, gluten and oil content and improve baking quality and digestibility. Its sulphur content increases crop resilience and builds stem strength.

Recommended crop: Recommended for all arable and horticultural crops.



ACTIVE INGREDIENT CONTENT	
Nitrogen	Sulphur
21%	24%



GENEZIS NITROSOL PRODUCT LINE

General features: Nitrosol is a factory- produced urea ammonium nitrate solution (UAN) with a density of 1.3 g/cm³ (NITROSOL 30% N). All members of the product line also contain nitrogen in the form of amide, nitrate and ammonium, which are also effective through the leaves. Our sulphurous NITROSOL is also available to add nitrogen and sulphur at the same time. Suitable for basal and starter fertilisation, and top dressing. It does not drain out. It is also excellent as an irrigation fertiliser. Also available with zinc, copper, boron and magnesium supplementation!

Recommended use: A field spreader with a nitrosol nozzle is required. Do not apply in the early morning or during the midday heat. Its use is recommended after 6 pm, in cloudy and calm weather. The addition of a wetting agent is prohibited. It can be mixed with most herbicides and stem hardeners, but a mixing test is always required.

Products containing sulphur are mainly recommended for fertilising oilseed crops or for sulphur-deficient crops. For cereals and rapeseed, a dose of 300-400 kg/ha can be applied without dilution until the end of tillering (late winter, early spring). At the start of stalk growth (cereals and rapeseed), the recommended dose is 100-150 kg/ha with 1:1 dilution. In mid-April, 80-150 kg/ha may be applied with a dilution of 2-3:1, depending on heat and light conditions. Temporary scorching of 2-3 mm may occur in cereals, however, this is outgrown by the crop in approx., one week, after which the crop becomes greener and more developed. For maize and sunflower, it may only be applied as a basal dressing fertiliser or with a nutrient cultivator at a dose that meets the current nitrogen requirements of the crop. The operating pressure of the spreader must be reduced to 1.5-2.0 bar.

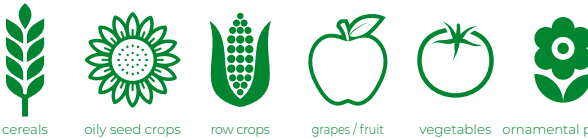


GENEZIS NITROSOL PRODUCT LINE

Advantages of the product: Uniform dispersion, homogeneous active ingredient distribution, evenly growing crops. It requires less thorough irrigation to take effect. It also exerts its effect via leaves and soil. Its use as a foliar fertiliser in wheat improves quality.

Recommended crop: Oily plants (rapeseed, sunflower), cereals, maize.

ACTIVE INGREDIENT CONTENT	
Nitrosol 30% N	30 kg N/100 kg
Nitrosol 30+Zn+Cu	30 kg N + Cu+Zn/100 kg
Nitrosol 20+4S	20 kg N + 4 kg S/100 kg
Nitrosol 16+6S	16 kg N + 6 kg S /100 kg



NITROGEN FERTILISERS

FERTILISER APPLICATION RECOMMENDATION

Fertiliser quantities in the table are for information purposes only! Exact recommended composition and quantities are determined on the basis of expert advice and soil test results!

APPLICATION OF NITROGEN FERTILISERS ON MAJOR ARABLE CROPS							
Plant	Active ingredients required for the crop*				Autumn nitrogen basal dressing fertiliser, if the use of a complex fertiliser is not recommended	Spring nitrogen basal and top dressing	Fertiliser need (kg/ha)
	crop (t/ha)	N	P ₂ O ₅	K ₂ O			Depending on the nutrient supply of the soil
Rapeseed	4-5	170	60	80	In autumn, a maximum of 35-40 kg/ha of nitrogen may be applied as a basal dressing fertiliser to avoid over-development.	Genezis Pétisó 27N+7CaO+5MgO	300-600
						Genezis Pétimészsó 15.9N+16.1CaO+11.6MgO	500-1000
						Genezis Pétisó+S 24N+12SO ₃	350-600
						Genezis NS 21:24	250-400
						Genezis Ammonium nitrate 34N	300-500
						Genezis Nitrosol 30N	300-550
						Genezis Nitrosol 20N +4S	450-800
Winter wheat	8-9	150	70	40	Maximum one third of the total nitrogen demand	Genezis Pétisó 27N+7CaO+5MgO	300-500
						Genezis Pétimészsó 15.9N+16.1CaO+11.6MgO	500-850
						Genezis Pétisó+S 24N+12SO ₃	350-500
						Genezis Ammonium nitrate 34N	250-400
						Genezis Karbamid 46N	200-350
						Genezis NS 21:24	100-250
						Genezis Nitrosol 30N	250-500
						Genezis Nitrosol 20N +4S	400-750
Winter barley	7-8	120	60	60	Maximum one third of the total nitrogen demand	Genezis Pétisó 27N+7CaO+5MgO	250-400
						Genezis Pétimészsó 15.9N+16.1CaO+11.6MgO	425-680
						Genezis Pétisó+S 24N+12SO ₃	300-400
						Genezis Ammonium nitrate 34N	250-350
						Genezis Karbamid 46N	150-200
						Genezis Nitrosol 30N	200-350
Triticale	7-9	150	70	40	One third of total nitrogen demand	Genezis Pétisó 27N+7CaO+5MgO	250-550
						Genezis Pétimészsó 15.9N+16.1CaO+11.6MgO	425-900
						Genezis Pétisó+S 24N+12SO ₃	300-500
						Genezis Ammonium nitrate 34N	250-400
						Genezis Nitrosol 30N	250-350

Table 2

NITROGEN FERTILISERS

FERTILISER APPLICATION RECOMMENDATION

APPLICATION OF NITROGEN FERTILISERS ON MAJOR ARABLE CROPS							
Plant	Active ingredients required for the crop*				Autumn nitrogen basal dressing fertiliser, if the use of a complex fertiliser is not recommended	Spring nitrogen basal and top dressing	Fertiliser need (kg/ha)
	crop (t/ha)	N	P ₂ O ₅	K ₂ O			Depending on the nutrient supply of the soil
Maize and sweet corn	10-12/20-24	150	60	70	Only in spring	Genezis Pétisó 27N+7CaO+5MgO	350-550
						Genezis Pétimészsó 15.9N+16.1CaO+11.6MgO	600-850
						Genezis Pétisó+S 24N+12SO ₃	400-600
						Genezis Ammonium nitrate 34N	300-450
						Genezis Karbamid 46N	250-350
Sunflower	4-5	85	50	70	Only in spring	Genezis Nitrosol 30N	300-550
						Genezis Pétisó 27N+7CaO+5MgO	200-300
						Genezis Pétimészsó 15.9N+16.1CaO+11.6MgO	350-500
						Genezis Pétisó+S 24N+12SO ₃	250-350
						Genezis Ammonium nitrate 34N	150-250
Spring barley	6-7	100	60	60	Only in spring	Genezis Karbamid 46N	100-180
						Genezis Nitrosol 30N	150-280
						Genezis Pétisó 27N+7CaO+5MgO	200-370
						Genezis Pétimészsó 15.9N+16.1CaO+11.6MgO	450-600
						Genezis Pétisó+S 24N+12SO ₃	250-400
Sugar beet	40-60	100	90	160	Only in spring	Genezis Ammonium nitrate 34N	150-250
						Genezis Karbamid 46N	100-180
						Genezis Nitrosol 30N	150-280
						Genezis Pétisó 27N+7CaO+5MgO	250-370
						Genezis Pétimészsó 15.9N+16.1CaO+11.6MgO	500-600
Potato	40-60	140	60	150	Only in spring	Genezis Pétisó+S 24N+12SO ₃	300-400
						Genezis Ammonium nitrate 34N	200-250
						Genezis Pétisó 27N+7CaO+5MgO	300-500
						Genezis Pétimészsó 15.9N+16.1CaO+11.6MgO	550-880
						Genezis Pétisó+S 24N+12SO ₃	350-500
Soy	3,5-4	80	60	80	Only in spring	Genezis Ammonium nitrate 34N	250-400
						Genezis Pétisó 27N+7CaO+5MgO	200-300
						Genezis Pétimészsó 15.9N+16.1CaO+11.6MgO	350-500
						Genezis Pétisó+S 24N+12SO ₃	250-300

* subject to medium or higher supply of nutrients

Fertiliser quantities in the table are for information purposes only! Exact recommended composition and quantities are determined on the basis of expert advice and soil test results!

SETTING PARAMETERS FOR SULKY FERTILISERS SPREADER FOR THE APPLICATION OF GENEZIS PÉTISÓ FERTILISERS						
Name of Genezis fertiliser	Progress speed	Sulky DPX24/PRIMA/70ANS/605/805/1155				
			Sulky DPX28 /DX30/DX30+			
		Spraying blade 18-24	Spreading width 18 m			Spraying blade 12-28 / 18-28
		Set value of spraying width	Set value of spraying quantity			Set value of spraying width
			300 kg/ha	350 kg/ha	400 kg/ha	
Prilled Pétisó	8 km/h	117	20	21	23	115
	10 km/h		22	24	26	
	12 km/h		25	27	30	
Granulated Pétisó/ Pétimészó/ Pétisó+S	8 km/h	121	21	23	25	119
	10 km/h		24	26	28	
	12 km/h		27	29	32	

Table 3

SETTING PARAMETERS FOR AMAZONE FERTILISERS SPREADER FOR GENEZIS NITROGEN FERTILISERS									
Name of Genezis fertiliser	Progress speed	Work width 18 m				Work width 24 m			
		Spade position	Bolt position for setting the quantity			Spade position	Bolt position for setting the quantity		
			300 kg/ha	350 kg/ha	400 kg/ha		300 kg/ha	350 kg/ha	400 kg/ha
			Spraying disk OM 18-24				Spraying disk OM 18-24		
Granulated Pétisó/ Pétimészó/ Pétisó+S	10 km/h	24/47	35	37.5	39	24/48	39.5	42.5	45
	12 km/h		38	40.5	43		43	46.5	49.5
	14 km/h		40.5	43.5	46.5		46.5	50	54
Prilled Pétisó	10 km/h	17/46	31.5	33.5	35.5	18/49	35.5	37.5	40
	12 km/h		34	36	38		38	41	43.5
	14 km/h		36	39.5	41		41	43.5	46.5
Ammonium Nitrate	10 km/h	23/43	31.5	33.5	35.5	27/43	35.5	37.5	40
	12 km/h		34	36	38		38	41	43.5
	14 km/h		36	38.5	41		41	43.5	46.5
Urea	Spraying disk OM 18-24					Spraying disk OM 18-24			
	10 km/h	16/45	35.5	38	40	15/48	40	43	46
	12 km/h		38.5	41	43.5		43.5	47	50.5
	14 km/h		41	44	47		47	51	55

Table 4



HYBRID SEEDS FROM GENEZIS PARTNER!

Genezis Partner Network offers a remarkably wide range of products in the three major hybrid crops to meet customer demands. Our partner network provides nation-wide coverage with more than 50 special advisors to help you choose the hybrid tailored to your specific needs.

Why choose us?

- State-of-the-art hybrid range for maize, sunflower and rapeseed
- Choice of hybrid tailored to individual needs
- Outstanding seed quality
- Favourable sales conditions
- Personalised agricultural counselling services



GENEZIS

Seed



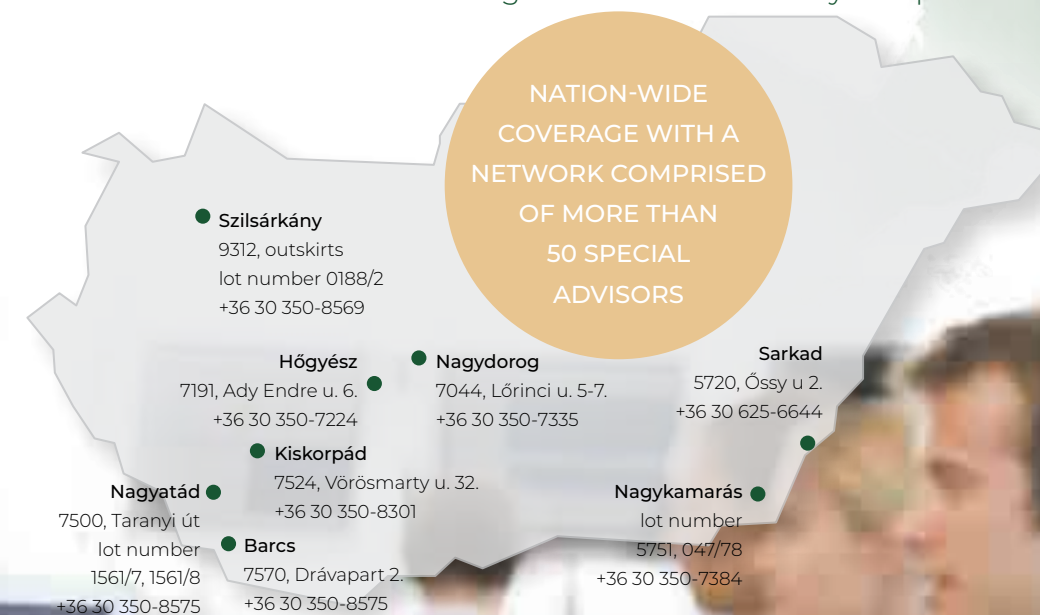
www.genezispartner.com

For more information please contact the sales representatives of Genezis Partner Network!

YOUR PROFESSIONAL PARTNER IN CROP TRADING!

How can we help you?

- Produce buy-up from small scale and licensed producers
- Continuous produce buy-up all through the year during, before and after harvest
- Competitive daily prices with forward or spot buying
- Full product range management for all cereals and oily seeds
- Full range of support services: buy-up, cleaning, drying and storage
- Flexible pricing specifically tailored to your needs
- Storage capacity available at 8 sites in Hungary
- We have our own logistic services to meet your specific needs



GENEZIS

Crop trade



www.genezispartner.com

For more information please contact the sales representatives of Genezis Partner Network!

MOST EFFICIENT FERTILISER APPLICATION WITH THE NPK FROM SZOLNOK

The predecessor of Bige Holding Kft., Tiszamenti Vegyiművek, started its operations in 1951, and soon became the dominant chemical industry centre of Hungary's Great Plain region.

The factory underwent an extensive transformation in 2004. Following the greenfield investment, a new fertiliser plant began operation. Hungary's state-of-the-art NPK fertiliser factory has been producing compacted NPK products from the Genezis fertiliser product line since March 2004, thanks to the new, environmentally-friendly technology widely used in Western Europe, allowing the factory to reliably produce high-quality Genezis NPK, NP and PK fertilisers at a capacity of 140,000 tonnes per year. The fertiliser factory can produce virtually any composition for any order over 100 tonnes, which shows a unique flexibility in the market.

Fertilisers made with compaction technology are popular for their advantageous properties. Currently, this technology is spreading in Western Europe as well, as compacted NPK fertilisers are more modern and effective preparations compared to traditional granular fertilisers!

The essence of the compaction technology is that after the homogenisation and milling of the various NPK active ingredients, the mixture is pressed at high pressure, i.e. without a chemical reaction or drying process. The press cake produced in an environmentally friendly manner is then shredded, graded and made into a product with a particle size of 2-5 mm, which is surface treated to prevent sticking. As a result of the process, all the granules of the compacted Genezis NPK fertiliser from Szolnok are homogeneous, have the same active ingredient composition, and the physical properties of the granules are the same.

Benefits of using Genezis NPK: High-quality raw production materials! Excellent solubility!

Due to the manufacturing technology, Genezis NPK fertilisers are much more soluble than conventional granular NPK preparations, even with lower levels of soil moisture.

A major advantage of Genezis compacted fertilisers over conventional granular NPK fertilisers is that the technology produces very finely granulated materials smaller than 100 micrometres.

As a result, a physical change takes place, due to which the specific surface area of the raw materials will be significantly larger and the fertiliser particles containing them will dissolve much faster, the necessary active ingredients can be absorbed by the plants completely and at the right time, increasing their effectiveness. 95% water-soluble phosphorus, 100% water soluble nitrogen and potassium content.

The speed of the dissolution of Genezis NPK fertilisers into water compared to hot granular fertilisers is clearly visible even when sprinkled into a glass of water! Excellent solubility even with less soil moisture, making it also ideal for spring use.

Before dissolution



Dissolution after 30 minutes



Precise applicability!

Uniform transverse dispersion ensuring that plants receive the same ratio and amount of active ingredient per square meter of arable land. Based on our own measurements, the transverse spread unevenness (CV%) of the physically mixed fertilisers was in all cases worse than the transverse spread unevenness of analogue Genezis NPK complex fertilisers, and also differed significantly from the dose originally set by calibration. The accepted EU standard is max. 15%. Spread unevenness (CV) greater than this results in a measurable reduction in crop yield.

No fractionation!

Use Genezis compact NPK fertiliser with confidence, as this fertiliser rules out the possibility of the extremely detrimental phenomenon whereby one granule contains only one active ingredient and another granule contains only the other active ingredient.

All particles are guaranteed to have the same composition, making nutrient distribution even and homogeneous! In the case of physically mixed NPK fertilisers, separation of the particles during transport, storage and use is common, i.e. particles of larger size and density travel to the bottom of the bag and the fertiliser mass in the fertiliser spreader tank. Therefore, the uniform application of the active ingredients is not feasible. With a centrifugal spreader, the fertiliser application distance depends on the particle size and weight, therefore, even nutrient distribution is excluded based on the above. (Figure 5).

Figure 6 illustrates well the general defects of physically mixed fertilisers. According to the inscription on the bag of the product purchased, it was PK 10-30 fertiliser. According to the active ingredient amounts actually measured, it was PK 7.8-36.9. The buyer purchased a 3:1 K:P ratio fertiliser and received a 4.7:1 K:P ratio fertiliser.

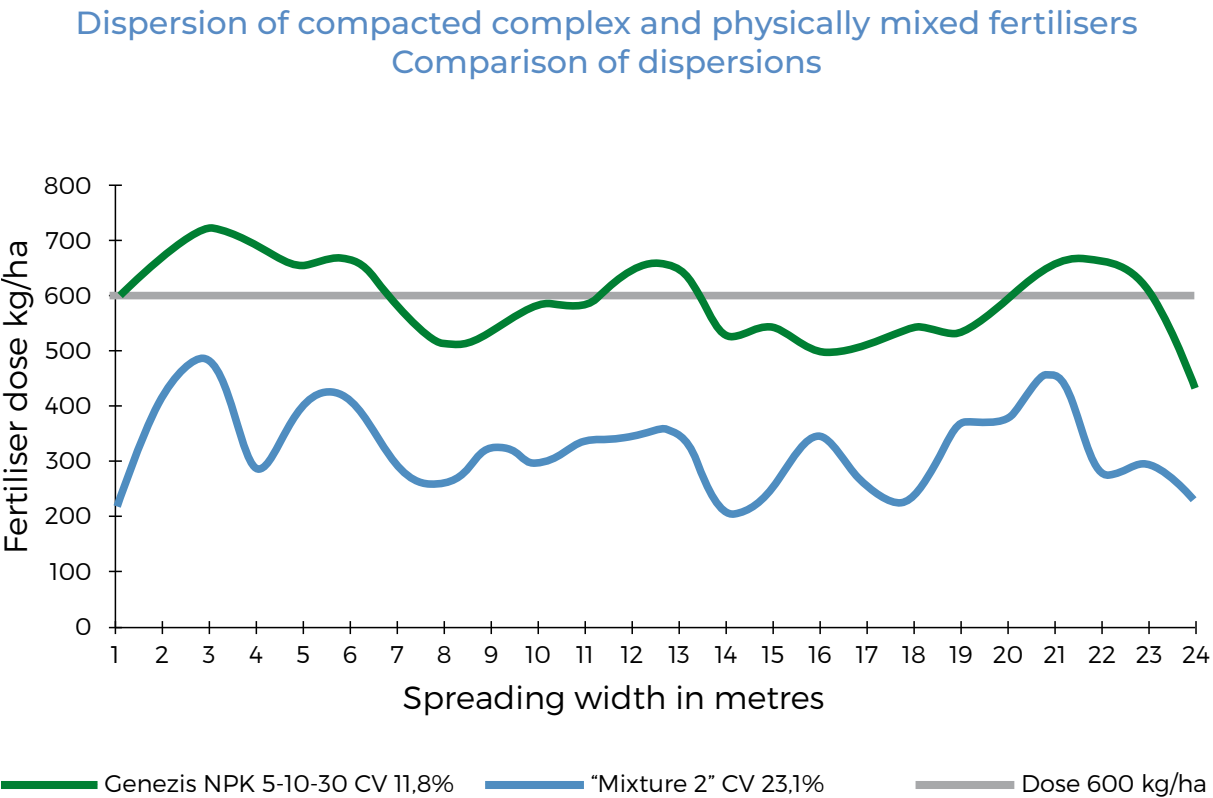


Figure 5

When the product is spread, these ratios vary transversely, from one meter to the next, as shown in the figure, from 3.57:1 to 7.62:1. Physically mixed fertilisers undergo objectively measurable significant segregation during fertiliser application and the original active ingredient compositions may show significant differences at different points of the plot, with a significant divergences in the ratios of the original active ingredient. The transverse dispersion clearly deteriorates and the adjusted doses need serious correction despite careful calibration.

Flexibly variable compositions with excellent physical properties

The advantage of compacted fertilisers is that their grain size and solidity meet current European quality standards, while their environmental impact and dust content are minimal. When spread, any dust that may be present comes from a very fine, powdery surface treatment material on the granules.

Maximum flexibility in compositions

In Genezis NPK fertilisers, the NPK active ingredient content can be varied according to the individual needs of farmers, and it can even be enriched with meso- and micronutrients. Due to all this, the NPK product range is extremely broad. Currently the Szolnok fertiliser factory offers 23 readymade products but, due to the rapid transition between the compositions, almost any combination of active ingredients can be produced in addition to these products. It is often the case that, depending on the crop and the nutrient supply of the soil, farmers require a unique composition, which may mean different nutrient ratios or the addition of different micronutrients to products with an existing composition.

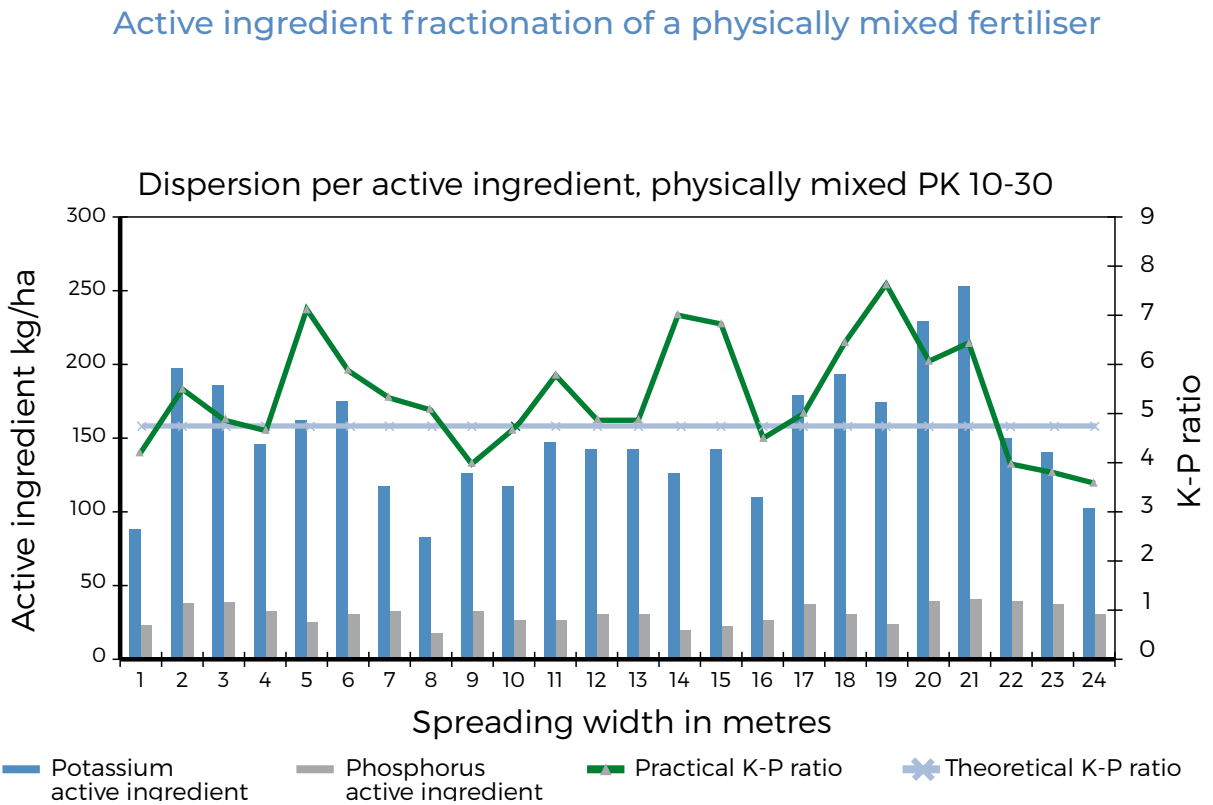


Figure 6

NP AND NPK FERTILISERS

STARTER FERTILISER

GENEZIS NP 15:25 + 2.1 CaO + 10.8 S + 0.1 B + 0.02 Cu + 0.02 Fe

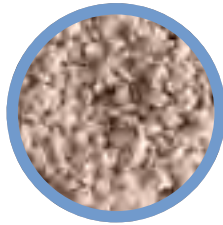
General features: Rich in sulphur, this basal and top dressing of excellent water solubility can be applied across the entire surface before or together with sowing at one go for winter and spring crops. The composition is suited to the nutrient requirements at the early stage of development.







Recommended use: It can be applied as basal dressing fertiliser before sowing and side dressing distributed with a seed drill using 100-150 kgs/ hectare as per crop requirements.

Advantages of the product: In addition to phosphorus, nitrogen and sulphur, it also contains microelements that promote initial rapid development. Its sulphur and boron content promotes the rapid

initial development and winter hardiness of oily plants and winter wheat. Its phosphorus content promotes dynamic tillering and crop growth. The micronutrient supplemented version helps prevent deficiency symptoms. Its active ingredients dissolve well in water, ensuring excellent utilisation. It is used for crops with a high sulphur need as a basal dressing for wheat and rapeseed in autumn and as a starter for sunflowers and maize in spring.

Recommended crop: Recommended for all arable and horticultural crops with a high sulphur need as autumn and spring basal and starter dressing.



ACTIVE INGREDIENT CONTENT						
N	P ₂ O ₅	CaO	S	B	Cu	Fe
15%	25%	2.1%	10.8%	0.1%	0.02%	0.02%
						
cereals	oil seed crops	row crops	grapes/fruit	vegetables	ornamental plants	



NP AND NPK FERTILISERS

STARTER FERTILISER

GENEZIS NP GOLD STARTER MICROGRANULATE

NP 10:48 + 0.1 B + 0.3 Fe + 1.0 Zn

Advantages of the product:

Accelerate initial development!

This product can be used to accelerate the initial development of germinating plants. When applied, the nutrient is placed directly alongside the seed, i.e. in the root zone of the germinating plant! With targeted fertiliser, you feed the plants directly, not the weeds between the rows.

Effective root formation!

Nitrogen and phosphorus absorbed after sprouting promote efficient root formation, which is also promoted by the micronutrient content of the fertiliser (B, Zn, Fe).

Improved water and nutrient uptake!

With stronger and more developed roots, the water and nutrient uptake of plants will be improved, improving and intensifying their growth.

Increased stress tolerance!

With a stronger root system, plants are more resistant to environmental stress, temperature fluctuations and lack of precipitation.

The nutrient needs of modern, intensive, high-yield maize and sunflower hybrids significantly exceed those of the semi-intensive hybrids and varieties that were generally grown in the past.

For these hybrids, the main breeding goal is early sowing and rapid early development vigour. Due to cool spring weather and low soil temperature, the nutrient supply capacity of the soil is limited (requiring a large amount of nitrogen and phosphorus that can be easily absorbed from the soil), resulting in delayed germination and slower initial development. In this case, the phosphorus supply capacity of the soil is low (there is already little phosphorus in the soil solution and at low temperatures, only a little phosphorus can be taken up from the soil by the plants), which is also indicated by maize plants showing anthocyanin discolouration on their leaves. Due to the relative lack of phosphorus, the plant cannot take advantage of its initial rapid developmental vigour, and even the more sensitive, initial developmental stages are prolonged, causing stress to the plant and a significant decrease in yield. Therefore, it is important to protect sunflowers and maize from variations in weather conditions, such as sudden cooling or rapid warming. The solution is microgranular starter fertilisation, which seeks to ensure strong root growth as well as rapid and even sprouting for the germinating plan, without adding clays that inhibit root formation in the immediate vicinity of the root. The Genezis Gold Starter NP microgranulate contains nutrients with excellent water solubility that plants can easily absorb.

The recommended dose of Genezis Gold Starter NP microgranulate for application during sowing is 15-25 kg/ha. This product can be used to accelerate the initial development of germinating plants. The nutrient is then placed directly alongside the seed, i.e. in the root zone of the germinating plant! With the targeted fertiliser, you feed the plants directly, not the weeds between the rows. Nitrogen and phosphorus absorbed after germination promote efficient root formation, which results in improved nutrient and water uptake by plants! We recommend its use on cold soils, in the case of early sowing or of cool weather after sowing.

Macronutrient concentration of the soil solution:

Quantity unit: mg/l

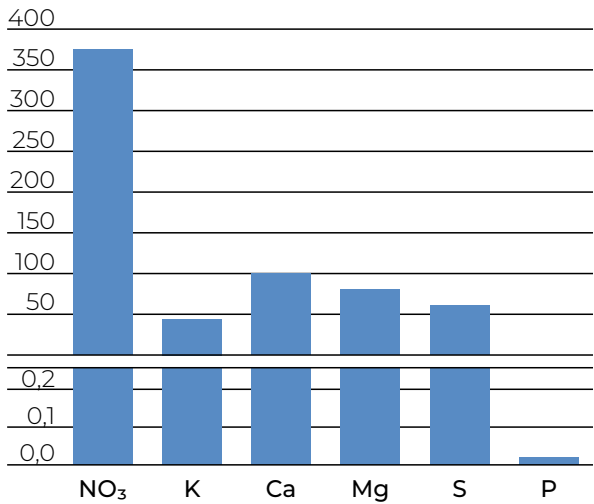


Figure 7

Phosphorus uptake at different soil temperatures:

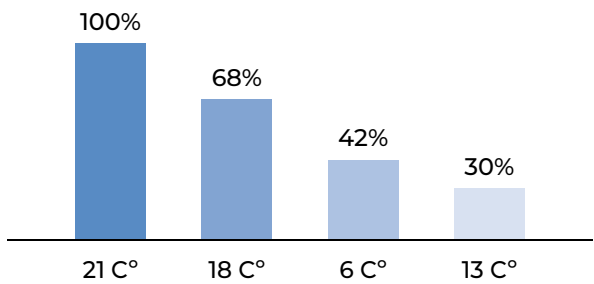


Figure 8

The recommended machine settings for the two most common fertiliser spreaders are given in Tables 3-4, while our recommendation for NPK fertilisation is summarised in Table 5 (pages 50-53).

NP AND NPK FERTILISERS

1:1 PHOSPHORUS POTASSIUM RATIO NPK FERTILISERS

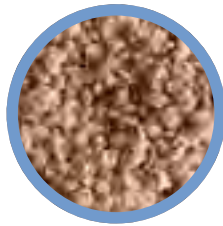
GENEZIS NPK 8:15:15 + 11.9 CaO + 2.6 MgO + 6.7 S + 0.05 B

General features: Starter dressing with a balanced amount of phosphorus and potassium for winter and spring crops and it contains all the six macronutrients that your plants need during vegetation. It has excellent solubility in water and contains nitrogen that helps accelerate the decomposition of autumn stalk residues.

Recommended use: For autumn and early spring basal dressing: 300-400 kgs/hectare as per crop requirements and professional advice. Its phosphorus content promotes dynamic tillering and crop growth, its potassium content increases winter hardiness, drought tolerance and stem strength of the plants.

Advantages of the product: High phosphorus content for the efficient basal dressing of crops with a high phosphorus demand. Its active ingredients dissolve well in water, ensuring excellent utilisation. Soil pH buffering effect on hardly acidic areas. Its sulphur and boron content promotes the rapid initial development and winter hardiness of oily plants and winter wheat, while its calcium content helps stabilise cell walls and promotes a more efficient nutrient uptake and dynamic growth.

Recommended crop: Recommended for all arable and horticultural crops as autumn and early spring basal dressing fertiliser.



ACTIVE INGREDIENT CONTENT						
N	P ₂ O ₅	K ₂ O	CaO	MgO	S	B
8%	15%	15%	11.9%	2.6%	6.7%	0.05%



cereals



oily seed crops



row crops



grapes/fruit



vegetables



ornamental plants

NP AND NPK FERTILISERS

1:1 PHOSPHORUS POTASSIUM RATIO NPK FERTILISERS

GENEZIS NPK 8:21:21 + 11.1 CaO + 3.0 S

General features: A basal dressing fertiliser containing both calcium and sulphur, with excellent water solubility and high phosphorus content for winter and spring crops with a high phosphorus demand to be applied on soils with average or less than average phosphorus and potassium content.

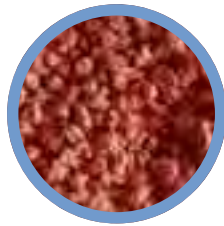
Recommended use: For autumn and early spring basal dressing, 300-400 kgs/hectare for cereals and rapeseed, 250-350 kgs/hectare for spring crops as per crop requirements and professional advice.

Advantages of the product: Balanced ratio of phosphorus and potassium. Excellent water solubility!

Applied in autumn, its nitrogen content increases the efficiency of stalk residue breakdown and accelerates nutrient release.

Its phosphorus content promotes dynamic root development and crop growth. Its potassium content contributes to stem strength, winter hardiness and better drought tolerance, while its calcium content helps stabilise cell walls and promotes a more efficient nutrient uptake and dynamic growth.

Recommended crop: Horticultural crops with a high phosphorus demand such as rapeseed, winter and spring cereals, maize, sweet corn, soya, peas, sunflower.



ACTIVE INGREDIENT CONTENT				
N	P ₂ O ₅	K ₂ O	CaO	S
8%	21%	21%	11.1%	3.0%



cereals



oily seed crops



row crops



grapes/fruit



vegetables



ornamental plants



NP AND NPK FERTILISERS

1:1 PHOSPHORUS POTASSIUM RATIO NPK FERTILISERS

GENEZIS NPK 8:24:24 + 2.5 CaO

General features: A basal dressing fertiliser rich in phosphorus and potassium, with excellent water solubility, recommended for winter and spring crops with a high phosphorus and potassium demand to be applied on soils with average or less than average phosphorus and potassium content.

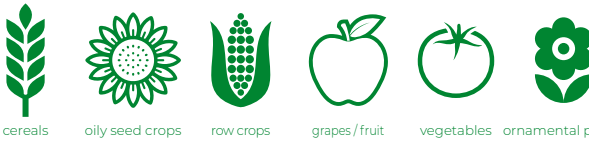
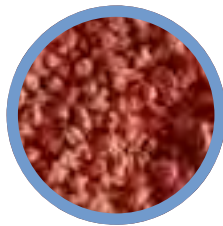
Recommended use: For autumn and early spring basal dressing: 300-400 kgs/hectare for cereals and rapeseed, 250-350 kgs/hectare around the base of spring crops as per crop requirements and professional advice. Its phosphorus content helps dynamic root development and crop growth, its potassium content contributes to increased stem

strength, winter hardiness and higher drought tolerance.

Advantages of the product: Balanced ratio of phosphorus and potassium. Excellent water solubility! Applied in autumn, its nitrogen content increases the efficiency of stalk residue breakdown and accelerates nutrient release. Basal dressing for crops with a high phosphorus demand.

Recommended crop: Rapeseed, winter and spring cereals, spring crops, maize, sweet corn, soya, peas, sunflower and horticultural crops with a high phosphorus and potassium demand.

ACTIVE INGREDIENT CONTENT				
N	P ₂ O ₅	K ₂ O	CaO	
8%	24%	24%	2.5%	



NP AND NPK FERTILISERS

HIGH PHOSPHORUS NPK FERTILISERS

GENEZIS NPK 10:20:10 + 11.8 CaO + 8.1 S

General features: Compacted basal dressing fertiliser with calcium and sulphur, excellent water solubility, primarily developed for cereals on soils with less than average phosphorus and at least more than average potassium content.

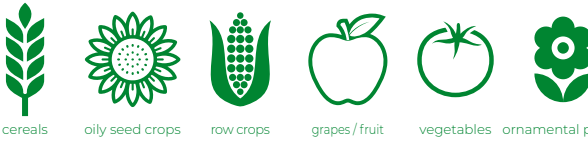
Recommended use: For basal dressing in autumn and early spring, 300-400 kgs/hectare as per crop requirements and professional advice. Primarily developed for basal dressing of cereals.

Advantages of the product: Basal dressing fertiliser with excellent water solubility and high phosphorus and sulphur content. Composition is designed to

suit the requirements of cereals. Its phosphorus content promotes dynamic root development and crop growth at a later stage. Its potassium content contributes to stem strength and winter hardiness and higher drought tolerance, while its concentrated sulphur content increases the amount of gluten and results in higher quality.

Recommended crop: Cereals, rapeseed and any other arable and horticultural crops with a high phosphorus demand.

ACTIVE INGREDIENT CONTENT				
N	P ₂ O ₅	K ₂ O	CaO	S
10%	20%	10%	11.8%	8.1%



GENEZIS NPK 10:20:5 +14.3 CaO + 2.4 MgO +8.1 S

General features: A basal dressing fertiliser with high phosphorus, calcium and sulphur content and excellent water solubility developed for acidic soils with good potassium but low phosphorus supply, for nutrient replenishment of crops with a high phosphorus demand.

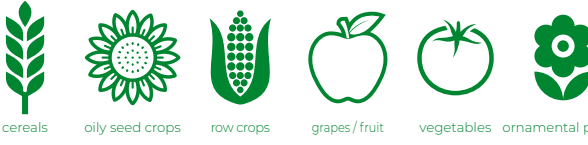
Recommended use: For basal dressing in autumn and early spring, 300-400 kgs/hectare as per crop requirements and professional advice. Its phosphorus content promotes dynamic tillering and crop growth.

Advantages of the product: High phosphorus content for fertilising crops with a high phosphorus demand. A basal dressing fertiliser for acidic soils due to its high calcium content. Its phosphorus content promotes dynamic tillering and crop growth.

Its nitrogen content allows basal fertilisation under autumn grains in one pass and its sulphur content promotes the rapid initial development and winter hardiness of oily plants and winter wheat.

Recommended crop: Winter cereals and rapeseed, arable and horticultural crops with a high phosphorus demand.

ACTIVE INGREDIENT CONTENT					
N	P ₂ O ₅	K ₂ O	CaO	MgO	S
10%	20%	5%	14.3%	2.4%	8.1%



NP AND NPK FERTILISERS

HIGH POTASSIUM NPK FERTILISERS

GENEZIS NPK 8:12:25 +6.7 CaO + 7.2 S

General features: A complex fertiliser with excellent water solubility and a unique composition containing both calcium and sulphur developed for the basal dressing of winter swede rape.

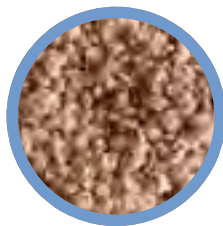
An ideal choice for cereals on fields with a good phosphorus and poor potassium supply. It holds the key to rapid initial development and good winter hardiness! Its potassium content contributes to increased stem strength, winter hardiness and higher drought tolerance and its sulphur content helps increase oil content.







Recommended use: For basal dressing in autumn and early spring, 300-400 kgs/hectare as per crop

requirements and professional advice. In addition to winter swede rape, it is a basal dressing for cereals on soils with a good phosphorus and poor potassium supply. Its phosphorus content promotes dynamic root development and crop growth,

Advantages of the product: Excellent water solubility! A harmonious composition of nutrients to meet the nutrient requirements of rapeseed. One single application to supply rapeseed with both nitrogen and sulphur in autumn.

Recommended crop: Winter swede rape as well as arable (row crops) and horticultural crops with a high potassium demand.



ACTIVE INGREDIENT CONTENT					
N	P ₂ O ₅	K ₂ O	CaO	S	
8%	12%	25%	6.7%	7.2%	
					
cereals	oil seed crops	row crops	grapes / fruit	vegetables	ornamental plants

GENEZIS NPK 8:16:24 + 9.3 CaO +4.7 S

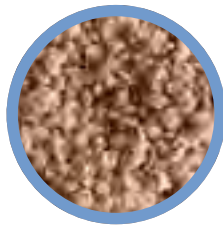
General features: A basal dressing fertiliser with excellent water solubility for row crops - a compacted fertiliser with increased phosphorus and high potassium content and sulphur to support early development on neutral and calcareous soils. An excellent choice for winter wheat on soils lacking potassium and for sunflower on soils with less than average phosphorus supply and for other crops with a high potassium demand.







Recommended use: For basal dressing of crops with a high potassium demand in autumn and early spring: 250-400 kgs/hectare for crops, 400-

600 kgs/hectare for potatoes and sugar beet, as per crop requirements and professional advice.

Advantages of the product: A harmonious composition of nutrients to meet the nutrient requirements of row crops. Excellent water solubility! Its high potassium content contributes to increased stem strength, winter hardiness and higher drought tolerance. Its elevated phosphorus content promotes rapid early development and crop growth at a later stage.

Recommended crop: Maize, sunflower, potato, sugar beet and any other arable and horticultural crop with a high potassium demand.



ACTIVE INGREDIENT CONTENT					
N	P ₂ O ₅	K ₂ O	CaO	S	
8%	16%	24%	9.3%	4.7%	
					
cereals	oil seed crops	row crops	grapes / fruit	vegetables	ornamental plants

NP AND NPK FERTILISERS

HIGH POTASSIUM NPK FERTILISERS

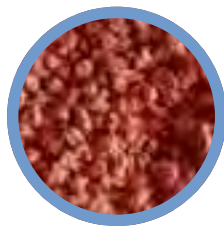
GENEZIS NPK 4:17:30 + 10.3 CaO







General features: A complex preparation with a unique composition and high calcium content specifically developed for basal dressing of maize. A complex fertiliser with excellent water solubility, which is the perfect choice for maize, sunflower or other crops with a high potassium demand especially on soils with average to good phosphorus and poor potassium supply.

Recommended use: For basal dressing in autumn and early spring, 300-400 kgs/hectare for maize, 200-350 kgs/hectare for other crops (cereals, sunflower, soya), 400-600 kgs/hectare for potatoes and sugar beet as per crop requirements and professional advice.

Advantages of the product: Excellent water solubility! A harmonious composition of nutrients to meet the nutritional needs of maize and sunflower. Its phosphorus content helps dynamic root development and crop growth, its potassium content contributes to increased stem strength and higher drought tolerance, while its calcium content helps stabilise cell walls and promotes a more efficient nutrient uptake and dynamic growth.

Recommended crop: Maize, sunflower and any other arable and horticultural crop with a high potassium demand.



ACTIVE INGREDIENT CONTENT			
N	P ₂ O ₅	K ₂ O	CaO
4%	17%	30%	10.3%
			
cereals	oil seed crops	row crops	grapes / fruit
			
		vegetables	ornamental plants

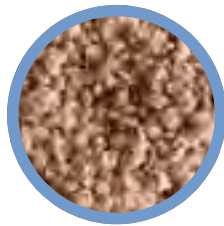
GENEZIS NPK 5:10:30 +9.4 CaO + 2.8 MgO +2.9 S







General features: A universal, potassium rich basal dressing fertiliser for row crops, a compacted fertiliser containing all the macronutrients to help meet calcium, magnesium and sulphur demand in autumn and early spring. A complex fertiliser with excellent water solubility, which is an ideal choice for sunflower and other crops with a high potassium demand and for soils rich in phosphorus and lacking potassium.

Recommended use: For basal dressing of crops with a high potassium demand in autumn and early spring: 300-400 kgs/hectare for maize, 250-350 kgs/hectare for sunflower and soya, 400-600 kgs/hectare for potatoes and sugar beet, as per crop requirements and professional advice.

Advantages of the product: Excellent water solubility! A harmonious composition of nutrients to meet the nutrient requirements of row crops, however, it is also effective for the basal dressing of cereals and rapeseed in areas with potassium deficiency. Its high potassium content contributes to stem strength, winter hardiness, natural resistance and better drought tolerance, while its calcium content helps stabilise cell walls and promotes a more efficient nutrient uptake and dynamic growth.

Recommended crop: Maize, sunflower, rapeseed, potato, sugar beet and any other arable and horticultural crop with a high potassium demand.



ACTIVE INGREDIENT CONTENT					
N	P ₂ O ₅	K ₂ O	CaO	MgO	S
5%	10%	30%	9.4%	2.8%	2.9%
					
cereals	oil seed crops	row crops	grapes / fruit	vegetables	ornamental plants

NP AND NPK FERTILISERS

HIGH POTASSIUM NPK FERTILISERS

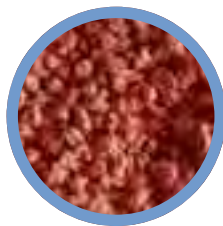
GENEZIS NPK 8:20:30 + 2.0 CaO

General features: A basal dressing fertiliser with excellent water solubility and increased phosphorus content for potassium intensive crops on soils with a low potassium content but at least an average amount of phosphorus. With a concentrated nutrient content of 60%, it helps achieve higher yields, high oil content and greater stem strength and resistance.

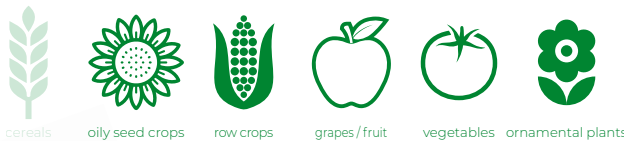
Recommended use: For basal dressing in autumn and early spring, 300-500 kgs/hectare as per crop requirements and professional advice.

Advantages of the product: Thanks to the excellent ingredients, it has a minimum water solubility ratio of 95%. Active ingredient content concentrated at 60%. Applied in autumn, its nitrogen content increases the efficiency of stalk residue breakdown and accelerates nutrient release. Owing to its rapid water solubility, it is also suitable for early spring application.

Recommended crop: Any arable and horticultural autumn or spring crop with a high potassium demand.



ACTIVE INGREDIENT CONTENT			
N	P ₂ O ₅	K ₂ O	CaO
8%	20%	30%	2%



NP AND NPK FERTILISERS

PK FERTILISERS

GENEZIS PK 10:20 + 18.3 CaO + 9.0 MgO

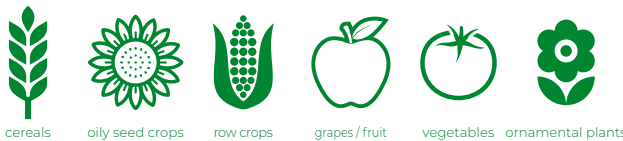
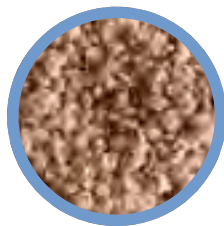
General features: A complex fertiliser with excellent water solubility and high calcium and magnesium content. The product has been developed for the autumn basal dressing of spring crops in an eco-friendly way especially for soils with less than average potassium supply.

Recommended use: For basal dressing in autumn and early spring, 300-500 kgs/hectare as per crop requirements and professional advice.

Advantages of the product: Excellent water solubility! Its high amount of lime and dolomite (calcium, magnesium carbonate) improves soil quality. If applied under spring crops in autumn, it avoids overloading soils with nitrate. It improves soil quality by reducing acidity so it is highly recommended on acidic soils.

Recommended crop: Any arable and horticultural autumn or spring crop.

ACTIVE INGREDIENT CONTENT			
P ₂ O ₅	K ₂ O	CaO	MgO
10%	20%	18.3%	9.0%



GENEZIS PK 10:28 + 14.3 CaO + 6.2 MgO

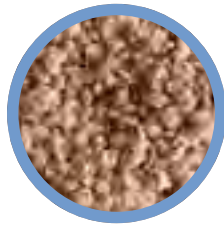
General features: A complex fertiliser with excellent water solubility and high calcium and magnesium content developed for the autumn basal dressing of spring crops in an eco-friendly way for acidic soils with less than average potassium supply. It does not cause soil acidification.

Recommended use: For basal dressing in autumn and early spring, 300-500 kgs/hectare as per crop requirements and professional advice.

Advantages of the product: Excellent water solubility! Rich in calcium and magnesium for soils which are prone to acidification. If applied under spring crops in autumn, it avoids overloading soils with nitrate. Soil pH buffering effect on hardly acidic and acidic areas. A basal dressing fertiliser for areas involved in the AE target programme and nitrate sensitive areas.

Recommended crop: Any arable and horticultural autumn or spring crop.

ACTIVE INGREDIENT CONTENT			
P ₂ O ₅	K ₂ O	CaO	MgO
10%	28%	14.3%	6.2%



NP AND NPK FERTILISERS

CHLORID-FREE NPK FERTILISERS

GENEZIS NPK 11:11:18 + 16.2 S + 0.05 B + 0.05 Fe + 0.1 Mn + 0.02 Zn

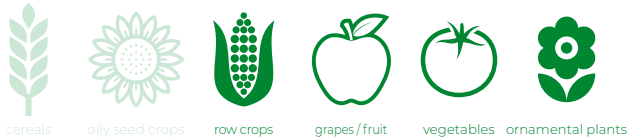
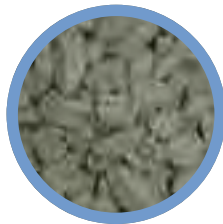
Packaging: 25 kg bag, 700 kg Big Bag.

General features: It was developed with chloride-sensitive horticultural crops (including, but not limited to: apples, pears, plums, courgettes, peppers, beans, onions, tobacco, cherries, beet, strawberries, redcurrants, gooseberries, raspberries) in mind, with the use of potassium sulphate instead of potassium chloride.

Advantages of the product: Can be used immediately before sowing or planting, as its chloride-free composition eliminates the negative

Recommended use: Suitable both for basal dressing and top dressing. In horticultural crops: Application of 250-500 kg/ha (25-50 dkg/10 m2) is recommended.

ACTIVE INGREDIENT CONTENT							
N	P ₂ O ₅	K ₂ O	S	B	Mn	Zn	Fe
11%	11%	18%	16.2%	0.05%	0.1%	0.02%	0.05%



NP AND NPK FERTILISERS

POTASSIUM FERTILISER RICH IN CALCIUM AND MAGNESIUM

GENEZIS K 40 + 10.0 CaO + 7.0 MgO

General features: A basal dressing fertiliser with excellent water solubility and high calcium and magnesium content for crops with a high potassium demand on soils which are prone to acidification. With a concentrated potassium content of 40% coupled with dolomite, it helps achieve greater stem strength and resistance.

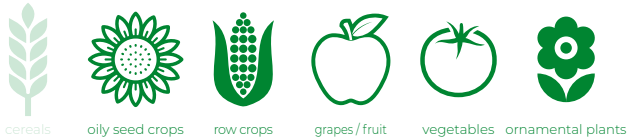
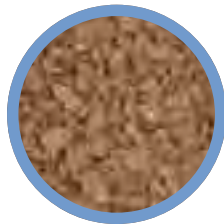
Recommended use: For basal dressing in autumn and early spring, 300-500 kgs/hectare as per crop requirements and professional advice.

Advantages of the product: Thanks to the excellent ingredients, the potassium it contains is 100% water soluble.

It contains a high amount of dolomite, therefore, its lime index is practically zero and does not cause the soil to acidify. It effectively increases the harvest amount of potatoes and sugar beets and its unique composition helps root and tuber formation. A basal dressing fertiliser for acidic sandy soils.

Recommended crop: Plants with a high potassium demand like all horticultural crops: tobacco, potato, maize, sunflower, rapeseed, oil pumpkin, sugar beet, sweet corn, sorghum, legumes, roughage.

ACTIVE INGREDIENT CONTENT		
K ₂ O	CaO	MgO
40%	10.0%	7.0%



NP AND NPK FERTILISERS

MICRONUTRIENT NPK FERTILISERS

GENEZIS NPK Premium 8:24:24 + 2.8 S + ME

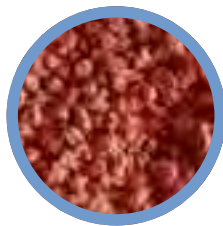
General features: A basal dressing fertiliser with excellent water solubility and high phosphorus content, containing micronutrients in addition to all four macronutrients, recommended for winter and spring crops with a high phosphorus demand to be applied on soils with average or less than average phosphorus and potassium content.

Recommended use: For autumn and early spring basal dressing: 300-400 kgs/hectare for cereals and rapeseed, 250-350 kgs/hectare around the base of spring crops as per crop requirements and professional advice. Its phosphorus content helps dynamic root development and crop growth, its potassium content contributes to increased stem strength, winter hardiness and higher drought tolerance.

Advantages of the product: Balanced ratio of phosphorus and potassium. Excellent water solubility! Applied in autumn, its nitrogen content increases the efficiency of stalk residue breakdown and accelerates nutrient release. Basal dressing for crops with a high phosphorus demand. The micronutrients it contains help supply nutrients required for rapid initial development.

Recommended crop: Winter cereals and rapeseed, spring crops, maize, sweet corn, soya, peas, sunflower and horticultural crops with a high phosphorus demand.

ACTIVE INGREDIENT CONTENT								
N	P ₂ O ₅	K ₂ O	S	B	Mn	Zn	Fe	
8%	24%	24%	2.8%	0.05%	0.1%	0.02%	0.05%	



cereals



oily seed crops



row crops



grapes/fruit



vegetables



ornamental plants

NP AND NPK FERTILISERS

MICRONUTRIENT NPK FERTILISERS

GENEZIS NPK Premium 8:12:25 + 7.2 S + 6.7 CaO + ME

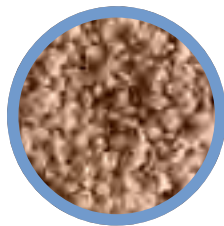
General features: A complex fertiliser with excellent water solubility and a unique premium composition containing the full range of macronutrients developed for the basal dressing of winter swede rape. A purposeful choice for cereals on fields with a good phosphorus and poor potassium supply. Addition of micronutrients is the key to rapid initial development and good winter hardiness!

Recommended use: For basal dressing in autumn and early spring, 300-400 kgs/hectare as per crop requirements and professional advice. In addition to winter swede rape, it is a basal dressing for cereals on soils with a good phosphorus and poor potassium supply.

Advantages of the product: Excellent water solubility! A harmonious composition of nutrients to meet the nutrient requirements of rapeseed. One single application and product to supply rapeseed with both nitrogen and sulphur in autumn. Its phosphorus content helps dynamic root development and crop growth, its potassium content contributes to increased stem strength, winter hardiness and higher drought tolerance. The application of this fertiliser helps supply the micronutrients needed for dynamic development in autumn.

Recommended crop: Winter swede rape as well as arable and horticultural crops with a high potassium demand.

ACTIVE INGREDIENT CONTENT									
N	P ₂ O ₅	K ₂ O	CaO	S	B	Mn	Fe	Zn	
8%	12%	25%	6.7%	7.2%	0.05%	0.2%	0.1%	0.02%	



cereals



oily seed crops



row crops



grapes/fruit



vegetables



ornamental plants



NP AND NPK FERTILISERS

POLYSULPHATE HIGH SULPHUR AND LOW CHLORIDE NPK FERTILISERS

GENEZIS PRODUCT RANGE WITH HIGH SULPHUR AND REDUCED CHLORIDE CONTENT

The development of our high sulphur fertiliser product range was inspired by the fact that sulphur is an essential nutrient for living organisms and is the fourth largest component, by volume, found in plants after nitrogen, phosphorus and potassium.

It is a building block of sulphur-containing amino acids, peptides, proteins, enzymes and vitamins (B1, Biotin, Thiamine). Sulphur plays a crucial role in the synthesis of fatty acids, making it particularly relevant for the cultivation of oilseed crops (rapeseed, sunflower, oil pumpkin). It increases the green mass and chlorophyll content in appropriate amounts, stimulates the vegetative growth of plants, improves the digestibility and palatability of feed crops. It affects the frost tolerance of plants. In cereals, properly applied sulphur fertilisation increases their value in the baked goods industry, increases protein and gluten content.

Sulphur enhances the resistance of plants to pests and pathogens, thus improving crop safety. The sulphur in all of our products is 100% water soluble yet it has a long lasting effect, therefore less is washed out of it and the plant is able to absorb more thus supplying more sulphur to the crops than any other type of product.

Sulphur deficiency is a common phenomenon which occurs due to the following:

- increased use of sulphur-free fertilisers,
- reduced use of sulphur as a plant protection agent,
- reduction of the concentration of sulphur compounds in the atmosphere,
- intensive or unilateral nitrogen fertilisation (N/S ratio)



NP AND NPK FERTILISERS

POLYSULPHATE HIGH SULPHUR AND LOW CHLORIDE NPK FERTILISERS

Keep in mind that applying the correct ratio of nitrogen and sulphur will enhance each other's effect and help each other to get integrated into the plant. The proper application of sulphur fertilisers will improve nitrogen utilisation. The lack of either of these elements causes the crops to go yellow, albeit in a different way.

If you confuse juvenile sulphur deficiency with nitrogen deficiency and try to remedy it by adding more nitrogen, you can make things worse – the relative sulphur deficiency will result in an increase in the susceptibility of plants to diseases, reduced yields and a loss of quality in addition to the above.

In addition to sulphur, our products contain water-soluble nitrogen, phosphorus, potassium, calcium and magnesium depending on fertiliser type.

N • Nitrogen and phosphorus are essential for all stages of growth, protein syntheses and grain development.

K • Potassium is essential for proper yield stability, oil production, build-up and transportation of carbohydrates. It improves resistance, hardiness, stem strength, water balance, yield quality, shelf life and reduces damage caused by water stress. It helps develop longer corn cobs containing kernels along the full length of the cob.



Ca • Calcium plays an important role in building cell wall strength, root development and resistance to stress.

Mg • Magnesium is essential for the synthesis of chlorophyll, being its central element, activating enzymes, developing appropriate stress resistance, health status, larger kernels (cereals), corn cobs with visibly larger corn kernels and a more developed and abundant root system which is capable of absorbing more water and nutrients.

NP AND NPK FERTILISERS

POLYSULPHATE HIGH SULPHUR AND LOW CHLORIDE NPK FERTILISERS

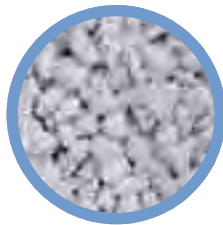
GENEZIS NPK 5-18-18+8.8 S

General features: This a “classic” balanced PK ratio NPK product which contains all the macro and secondary nutrients in a water soluble form. It is recommended for supplementing sulphur together with calcium and magnesium at one pass along with PK basal dressing.

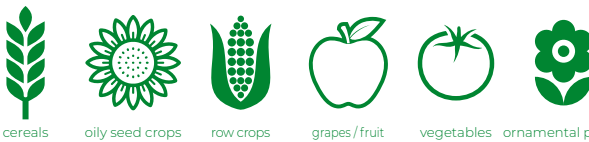
Recommended use: Autumn or spring PKS basal dressing. Areas deficient in sulphur and crops with a high sulphur demand. 200-600 kgs/hectare depending on the nutritional requirement of the plant species, the nutritional properties and nutrient supply capacity of the soil. Fall fertiliser application is recommended for crops susceptible to chloride!

Advantages of the product: Excellent water solubility! It contains both calcium and magnesium. The potassium and sulphur it contains are released gradually and washed out slowly allowing plants to make a better use of them and the way they are being leached is more consistent with the plant's dynamics of nutrient uptake than other traditional preparations. Three macronutrients and three secondary nutrients are included in a single product.

Recommended crop: Cereals, rapeseed, maize, sunflower, soya, oil pumpkin, sorghum, sweet corn, horticultural crops.



ACTIVE INGREDIENT CONTENT						
N	P ₂ O ₅	K ₂ O	CaO	MgO	S	(SO ₃)
5%	18%	18%	6.9%	2.4%	8.8%	(21.9%)



NP AND NPK FERTILISERS

POLYSULPHATE HIGH SULPHUR AND LOW CHLORIDE NPK FERTILISERS

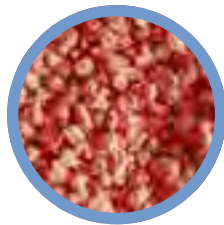
GENEZIS K Premium

General features: It is not a simple potassium fertiliser as it not only contains 9.6% of sulphur but also calcium and magnesium, and what is more, in a perfectly water-soluble form. It is recommended for supplying potassium and sulphur and adding magnesium and calcium at the same time.

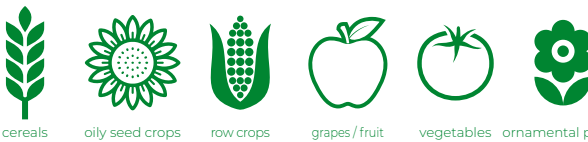
Recommended use: Autumn or spring KS basal dressing. Areas deficient in sulphur and crops with a high sulphur demand. 100-500 kgs/hectare depending on the nutritional requirement of the plant species, the nutritional properties and nutrient supply capacity of the soil. Fall fertiliser application is recommended for crops susceptible to chloride!

Advantages of the product: Excellent water solubility! It contains both calcium and magnesium. The potassium and sulphur it contains are released gradually and washed out slowly allowing plants to make a better use of them and the way they are being leached is more consistent with the plant's dynamics of nutrient uptake than other traditional preparations. One macronutrient plus three secondary nutrients are included in a single product.

Recommended crop: Cereals, rapeseed, maize, sunflower, soya, oil pumpkin, sorghum, sweet corn, horticultural crops.



ACTIVE INGREDIENT CONTENT				
K ₂ O	CaO	MgO	S	(SO ₃)
37%	8,5%	3%	9.6%	(24%)



GENEZIS NPK SUSPENSION FERTILISERS

Genezis suspension fertilisers are typically made by floating solid substances with a particle size of between 500 nm and 2 mm, which are applied during liquid fertilisation or by injection onto or into the soil.

They are manufactured in a closed system with computer control. The sedimentation of the ingredients is slowed by frequent stirring and adding bentonite gel to the Genezis suspension.

Our Genezis suspension fertilisers are manufactured with various compositions.

We are able to flexibly change the composition to suit individual needs.

Safe application is important while using suspension fertilisers, i.e. use it as soon as possible after delivery! The great advantage of the liquid formula is that no moisture is needed to dissolve the fertiliser particles, resulting in better utilisation in drier weather conditions.

Another great advantage is that with proper calibration of the application equipment (spraying, injection) an even dispersion can be achieved, which is a great advantage in dense row cultures with a small growing area per plant.

The best types of application equipment are those equipped with a piston or gear pump and 40 stop plate nozzles.

Application can be combined with ground work and it is advisable to work the suspension into the soil immediately after application.

When application immediately after delivery is not possible, it can be stored for 3 to 5 days, but then it must be stirred every day.



GENEZIS NPK SUSPENSION FERTILISERS


GENEZIS NPK 7-21-7


General features: A liquid fertiliser with high phosphorus content, at least 95% of which is absorbed by the soil. It is an excellent basal dressing for soils with a lower than average phosphorus content and for wheat and other autumn cereals. Due to the suspension formula, it is also suitable for spring application (spring cereals) on soils well supplied with potassium.


Recommended crop: Primarily for cereals, but for any other crops as well.


ACTIVE INGREDIENT CONTENT


N	P ₂ O ₅	K ₂ O
7%	21%	7%



cereals


oil seed crops


row crops


grapes / fruit


vegetables


ornamental plants


GENEZIS NPK 10-10-12


General features: A preparation with a balanced content of active ingredients. Recommended for all field crops, as a general basal dressing fertiliser. In spring application, it is a basal dressing for sunflower and spring cereals.


Recommended crop: Primarily for row crops, but for any other plants as well. Sunflower, maize and spring cereals.


ACTIVE INGREDIENT CONTENT


N	P ₂ O ₅	K ₂ O
10%	10%	12%



cereals


oil seed crops


row crops


grapes / fruit


vegetables


ornamental plants


GENEZIS NPK 6-10-15


General features: A suspension high in potassium, it is an excellent basal dressing for soy, maize and sunflower. We recommend it mainly for spring application, but you can also use it under rapeseed in autumn.


Recommended crop: Primarily soya, maize and sunflower, but for any other crops as well.


ACTIVE INGREDIENT CONTENT


N	P ₂ O ₅	K ₂ O
6%	10%	15%



cereals


oil seed crops


row crops


grapes / fruit


vegetables


ornamental plants


GENEZIS NPK 14-7-14


General features: An autumn basal dressing for soils with good or very good phosphorus content. Recommended for spring application under maize and sunflower. Its high nitrogen content transferred into the aqueous phase makes excellent use of it, even in drier weather conditions.


Recommended crop: Maize and sunflower.


ACTIVE INGREDIENT CONTENT


N	P ₂ O ₅	K ₂ O
14%	7%	14%



cereals


oil seed crops


row crops


grapes / fruit


vegetables


ornamental plants







GENEZIS NPK SUSPENSION FERTILISERS

GENEZIS NPK 18-7-7

General features: Due to its high nitrogen content, it is a basal dressing for soils with good phosphorus and potassium content. It is recommended for all field crops, primarily as an autumn basal dressing fertiliser for autumn cereals and rapeseed. In drier weather conditions, spring application is also worth considering.

Recommended crop: Autumn cereals, rapeseed and maize.

ACTIVE INGREDIENT CONTENT		
N	P ₂ O ₅	K ₂ O
18%	7%	7%



cereals

oil seed crops

row crops

grapes / fruit

vegetables







ornamental plants

GENEZIS NPK 4-12-20

General features: A potassium-dominant suspension fertiliser high in active ingredients which, due to its composition, is an excellent basal dressing for maize, sunflower and rapeseed. Its active ingredient content is very effective even when applied in drier springs.

Recommended crop: Maize, sunflower and rapeseed.

ACTIVE INGREDIENT CONTENT		
N	P ₂ O ₅	K ₂ O
4%	12%	20%



cereals

oil seed crops

row crops

grapes / fruit

vegetables

ornamental plants









GENEZIS NPK SUSPENSION FERTILISERS

GENEZIS NPK 14-13-5 + 2 S

General features: A high-quality liquid NP preparation with sulphur supplementation. It is a good choice for both basal and starter fertilisation, especially on soils with good or very good potassium supply. It can also be applied to the seed bed with suitable equipment.

Recommended crop: Winter cereals.

ACTIVE INGREDIENT CONTENT			
N	P ₂ O ₅	K ₂ O	S
14%	13%	5%	2%



cereals

oil seed crops

row crops

grapes / fruit

vegetables







ornamental plants

GENEZIS NPK 5.5-11-16.5 + 3 S

General features: A potassium-dominant suspension with significant amounts of phosphorus and sulphur. An excellent basal dressing for soybean, maize and sunflowers. We recommend it mainly for spring application, but you can also use it under rapeseed in autumn.

Recommended crop: Soya, maize, sunflower and rapeseed.

ACTIVE INGREDIENT CONTENT			
N	P ₂ O ₅	K ₂ O	S
5.5%	11%	16.5%	3%



cereals

oil seed crops

row crops

grapes / fruit

vegetables

ornamental plants

APPLICATION OF NPK FERTILISERS ON MAJOR ARABLE CROPS									
Plant	Active ingredients required for the crop *				Autumn NPK basal dressing fertiliser	Fertiliser need (kg/ha)	Spring NPK basal dressing fertiliser	Starter fertiliser	Recommended starter dose (kg/ha)
	crop (t/ha)	N	P ₂ O ₅	K ₂ O		Depending on the nutrient supply of the soil			
Rapeseed	4-5	170	60	80	Genezis NPK 8:12:25 +5 CaO + 5.7	300-400		Genezis Gold NP Starter MICROGRANULATE NP 10:48 + 1Zn+ 0.1B+0.3Fe	15-25
					Genezis NPK 8:24:24 + 2.46 S	300-400			
					Genezis NPK 4:17:30 +10 CaO	250-400			
					Genezis NPK 8:20:30	250-400			
					Genezis NPK 5:10:30 + 9.4 CaO + 2.8 MgO + 2.8 S	300-400			
					Genezis NPK 8:15:15 + 13.4 CaO+ 3.7 MgO+ 2.8 S	300-400			
					Genezis Suspension NPK 4:12:20	350-450			
Winter wheat	8-9	150	70	40	Genezis NPK 10:20:10 + 13.8 CaO + 2.1 MgO + 5.7 S	300-400		Genezis Gold NP Starter MICROGRANULATE NP 10:48 + 1Zn+0.1B+0.3Fe	15-25
					Genezis NPK 8:21:21 + 11.1 CaO +3.0 S	300-400			
					Genezis NP 15:25 + 2.0 CaO + 10.8 S	250-350			
					Genezis NPK 8:24:24 + 2.46 S	250-350			
					Genezis NPK 8:15:15 + 13.4 CaO+ 3.7 MgO+ 2.8 S	350-400			
					Genezis NPK 5:18:18 + 6.9 CaO+ 2.4 MgO+ 8.8 S	300-400			
					Genezis Suspension NPK 9:18:9	350-400			
					Genezis Suspension NPK 7-21-7	350-400			
					Genezis K 40 +9.99 CaO + 6.99 MgO	100-300		Genezis NP 15:25 + 2.0 CaO + 10.8 S	150-250
					Genezis K Premium 37 K ₂ O+8.5 MgO + 9.6S	100-300			
Winter barley	7-8	120	60	60	Genezis NPK 10:20:10 + 13.8 CaO + 2.1 MgO + 5.7 S	300-350		Genezis Gold NP Starter MICROGRANULATE NP 10:48 + 1Zn+0.1B+0.3Fe	15-25
					Genezis NPK 8:21:21 + 11.1 CaO +3.0 S	300-350			
					Genezis NP 15:25 + 2.0 CaO + 10.8 S	250-300			
					Genezis NPK 8:24:24 + 2.46 S	250-350			
					Genezis NPK 8:15:15 + 13.4 CaO+ 3.7 MgO+ 2.8 S	350-400			
					Genezis NPK 5:18:18 + 6.9 CaO+ 2.4 MgO+ 8.8 S	300-350			
					Genezis Suspension NPK 9:18:9	350-400			
					Genezis Suspension NPK 7-21-7	350-400			
					Genezis K 40 +9.99 CaO + 6.99 MgO	100-300		Genezis NP 15:25 + 2.0 CaO + 10.8 S	150-250
					Genezis K Premium 37 K ₂ O+8.5 MgO + 9.6S	100-300			
Triticale	7-9	150	70	40	Genezis NPK 10:20:10 + 13.8 CaO + 2.1 MgO + 5.7 S	250-300			
					Genezis NPK 8:21:21 + 11.1 CaO +3.0 S	250-300			
					Genezis NPK 8:24:24 + 2.46 S	250-300			
					Genezis NP 15:25 + 2.0 CaO + 10.8 S	200-250			
					Genezis NPK 8:15:15 + 13.4 CaO+ 3.7 MgO+ 2.8 S	300-350			
					Genezis NPK 5:18:18 + 6.9 CaO+ 2.4 MgO+ 8.8 S	300-350			
					Genezis Suspension NPK 9:18:9	250-300			
Maize and sweet corn	10-12/ 20-24	150	60	70	Genezis Suspension NPK 7-21-7	250-300	If no NPK fertiliser was applied in autumn, NPK compositions and doses recommended for fall may be used in the spring!	Genezis Gold NP Starter MICROGRANULATE NP 10:48 + 1Zn+0.1B+0.3Fe	15-25
					Genezis NPK 8:12:25 +5 CaO + 5.7	250-400			
					Genezis NPK 8:20:30	250-400			
					Genezis NPK 8:15:15 + 13.4 CaO+ 3.7 MgO+ 2.8 S	250-400		Genezis NP 15:25 + 2.0 CaO + 10.8 S	100-150
					Genezis NPK 4:17:30 +10 CaO	250-400			
					Genezis NPK 8:21:21 + 2.9 CaO + 2.0 MgO +3.6 S	250-400			
					Genezis PK 10:20 + 14.20 CaO + 9.90 MgO	350-400			
					Genezis K 40 +9.99 CaO + 6.99 MgO	100-300			
					Genezis K Premium 37 K ₂ O+8.5 MgO + 9.6S	100-300			
					Genezis Suspension NPK 4-12-20	250-400			

Table 5

* subject to medium or higher supply of nutrients

APPLICATION OF NPK FERTILISERS ON MAJOR ARABLE CROPS									
Plant	Active ingredients required for the crop *				Autumn NPK basal dressing fertiliser	Fertiliser need (kg/ha)	Spring NPK basal dressing fertiliser	Starter fertiliser	As a starter: recommended dose (kg/ha)
	crop (t/ha)	N	P ₂ O ₅	K ₂ O		Depending on the nutrient supply of the soil			
Sunflower	4-5	85	50	70	Genezis NPK 8:12:25 +5 CaO + 5.7	200-350	If no NPK fertiliser was applied in autumn, NPK compositions and doses recommended for fall may be used in the spring!	Genezis Gold NP Starter Microgranulate NP 10:48 + 1Zn+0.1B+0.3Fe	15-25
					Genezis NPK 8:20:30	200-350			
					Genezis NPK 8:15:15 + 13.4 CaO+ 3.7 MgO+ 2.8 S	200-350		Genezis NP 15:25 + 2.0 CaO + 10.8 S	150-250
					Genezis NPK 4:17:30 +10 CaO	200-350			
					Genezis PK 10:20 + 14.20 CaO + 9.90 MgO	250-350			
					Genezis K 40 +9.99 CaO + 6.99 MgO	100-300			
					Genezis K Premium 37 K ₂ O+8.5 MgO + 9.6S	100-300			
					Genezis NPK 5:18:18 + 6.9 CaO+ 2.4 MgO+ 8.8 S	250-300			
					Genezis NPK 8:24:24 + 2.46 S	200-350			
					Genezis Suspension NPK 4-12-20	200-350			
Spring barley	6-7	100	60	60	Genezis NPK 10:20:10 + 13.8 CaO + 2.1 MgO + 5.7 S	250-300	If no NPK fertiliser was applied in autumn, NPK compositions and doses recommended for fall may be used in the spring!	Genezis Gold NP Starter Microgranulate NP 10:48 + 1Zn+0.1B+0.3Fe	15-25
					Genezis NPK 8:21:21 + 11.1 CaO +3.0 S	250-300			
					Genezis NP 15:25 + 2.0 CaO + 10.8 S	200-250		Genezis NP 15:25 + 2.0 CaO + 10.8 S	150-250
					Genezis Suspension NPK 7-21-7	200-300			
					Genezis NPK 5:18:18 + 6.9 CaO+ 2.4 MgO+ 8.8 S	250-300			
					Genezis NPK 8:15:15 + 13.4 CaO+ 3.7 MgO+ 2.8 S	250-300			
					Genezis PK 10:20 + 14.20 CaO + 9.90 MgO	250-300			
Sugar beet	40-60	100	90	160	Genezis NPK 8:20:30	300-500		Genezis Gold NP Starter Microgranulate NP 10:48 + 1Zn+0.1B+0.3Fe	15-25
					Genezis NPK 5:10:30 + 5.4 CaO + 3.76 MgO + 3.1 S	300-500			
					Genezis NPK 4:17:30 +5.2 CaO + 3.6 MgO	300-500		Genezis NP 15:25 + 2.0 CaO + 10.8 S	100-200
					Genezis PK 10:20 + 14.20 CaO + 9.90 MgO	500-700			
					Genezis K 40 +9.99 CaO + 6.99 MgO	200-500			
					Genezis K Premium 37 K ₂ O+8.5 MgO + 9.6S	200-500			
Potato	40-60	140	60	150	Genezis NPK 8:20:30	300-500			
					Genezis NPK 5:10:30 + 9.4 CaO + 2.8 MgO + 2.8 S	400-600			
					Genezis NPK 4:17:30 +10 CaO	400-600			
					Genezis PK 10:20 + 14.20 CaO + 9.90 MgO	500-700			
					Genezis K 40 +9.99 CaO + 6.99 MgO	200-500			
					Genezis K Premium 37 K ₂ O+8.5 MgO + 9.6S	200-500			
Soy	3,5-4	80	60	80	Genezis NPK 8:24:24 + 2.46 S	200-300		Genezis Gold NP Starter Microgranulate NP 10:48 + 1Zn+0.1B+0.3Fe	15-25
					Genezis NPK 8:12:25 +5 CaO + 5.7	200-300			
					Genezis NPK 4:17:30 +10 CaO	200-300		Genezis NP 15:25 + 2.0 CaO + 10.8 S	100-200
					Genezis NPK 8:20:30	200-300			
					Genezis K 40 +9.99 CaO + 6.99 MgO	200-500			
					Genezis K Premium 37 K ₂ O+8.5 MgO + 9.6S	200-500			
					Genezis PK 10:20 + 14.20 CaO + 9.90 MgO	400-500			

Table 5

* subject to medium or higher supply of nutrients

SETTING PARAMETERS FOR SULKY FERTILISERS SPREADER FOR THE APPLICATION OF GENEZIS NPK FERTILISERS						
Name of Genezis fertiliser	Progress speed	Sulky DPX24/PRIMA/70ANS/605/805/1155				
			Sulky DPX28 /DX30/DX30+			
		Spraying blade 18-24	Spreading width 18 m			Spraying blade 12-28 / 18-28
		Set value of spraying width	Set value of spraying quantity			Set value of spraying width
		300 kg/ha	350 kg/ha	400 kg/ha		
NPK 8-20-30	8 km/h	109	23	25	28	108
	10 km/h		27	29	32	
	12 km/h		30	33	37	
NPK 0-10-20	8 km/h	106	22	24	26	104
	10 km/h		25	28	30	
	12 km/h		28	31	34	
NPK 8-15-15	8 km/h	105	23	25	27	104
	10 km/h		26	29	32	
	12 km/h		30	33	36	
NPK 5-10-30	8 km/h	101	23	26	28	100
	10 km/h		27	30	33	
	12 km/h		30	34	37	
NPK 8-21-21	8 km/h	107	23	25	27	106
	10 km/h		26	29	31	
	12 km/h		29	32	36	

Table 6

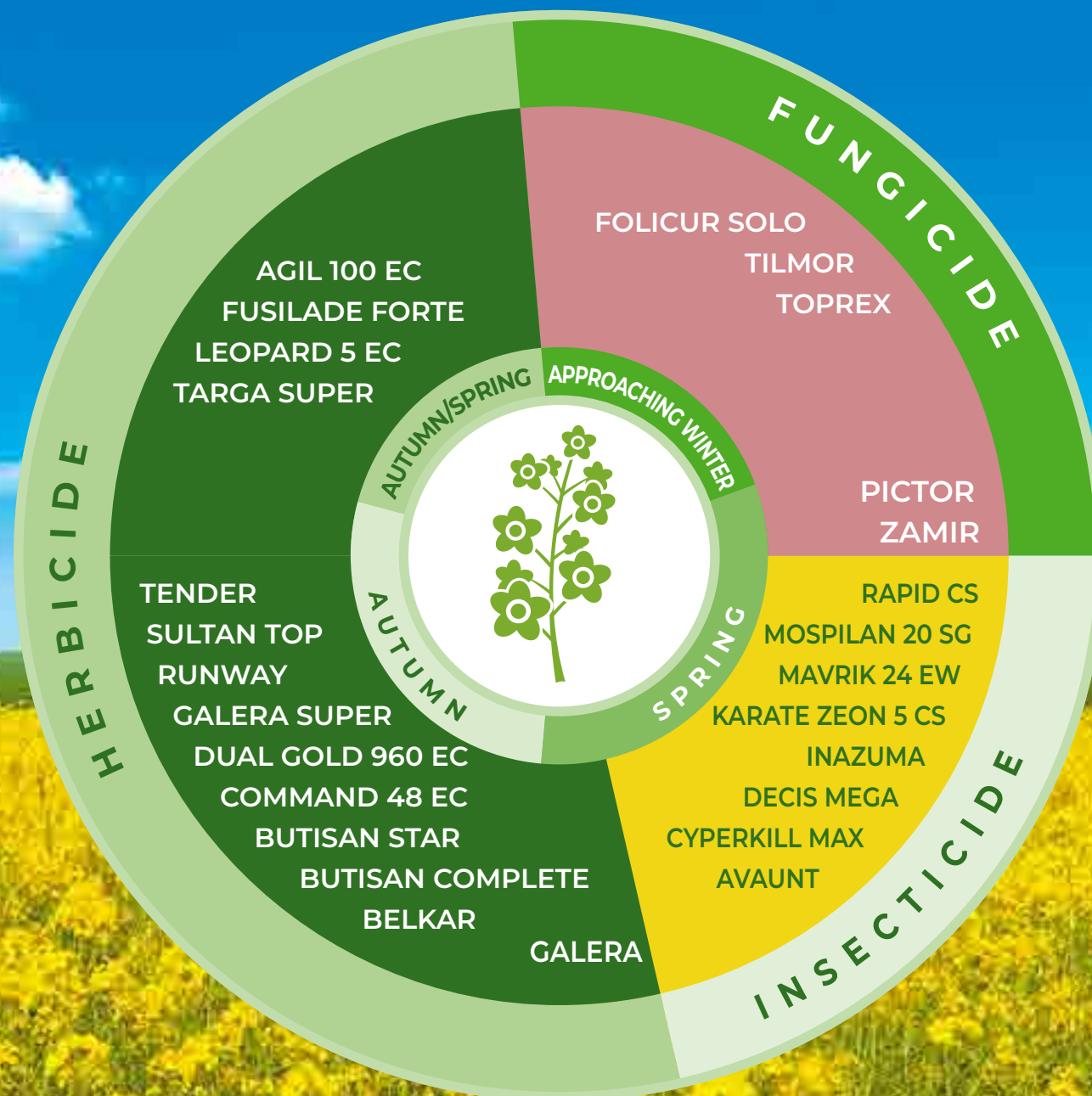


SETTING PARAMETERS FOR AMAZONE FERTILISERS SPREADER FOR THE APPLICATION OF GENEZIS NPK FERTILISERS									
Name of Genezis fertiliser	Progress speed	Work width 18 m				Work width 24 m			
		Spade Position	Bolt position for setting the quantity			Spade Position	Bolt position for setting the quantity		
			300 kg/ha	350 kg/ha	400 kg/ha		300 kg/ha	350 kg/ha	400 kg/ha
			Spraying disk OM 18-24				Spraying disk OM 18-24		
NPK 10-20-10	12 km/h	15/41	38.5	41	43.5	18/42	43.5	47	50
	13 km/h		39.5	42.5	45		45	48.5	52.5
	14 km/h		41	44	47		47	50.5	54.5
NPK 0-10-20	10 km/h	12/38	35	37	39	16/45	39	42	44.5
	12 km/h		37.5	40	42.5		42.5	45.5	48.5
	14 km/h		40	43	45.5		45.5	49	53
NPK 8-15-15	12 km/h	15/41	38	40.5	43	18/42	43	46.5	49.5
	13 km/h		39	42	44.5		44.5	48	51.5
	14 km/h		40.5	43.5	46.5		46.5	50	54
NPK 8-21-21	10 km/h	12/38	35.5	38	40	16/45	40	43	45.5
	12 km/h		38.5	41	43.5		43.5	47	50
	14 km/h		41	44	47		47	50.5	54.5
NS 21-24	10 km/h	15/42	35	37	39	16/48	39	42	44.5
	12 km/h		37.5	40	42.5		42.5	45.5	48.5
	14 km/h		40	43	45.5		45.5	49	53

Table 7

BEST PRICES ARE GUARANTEED!

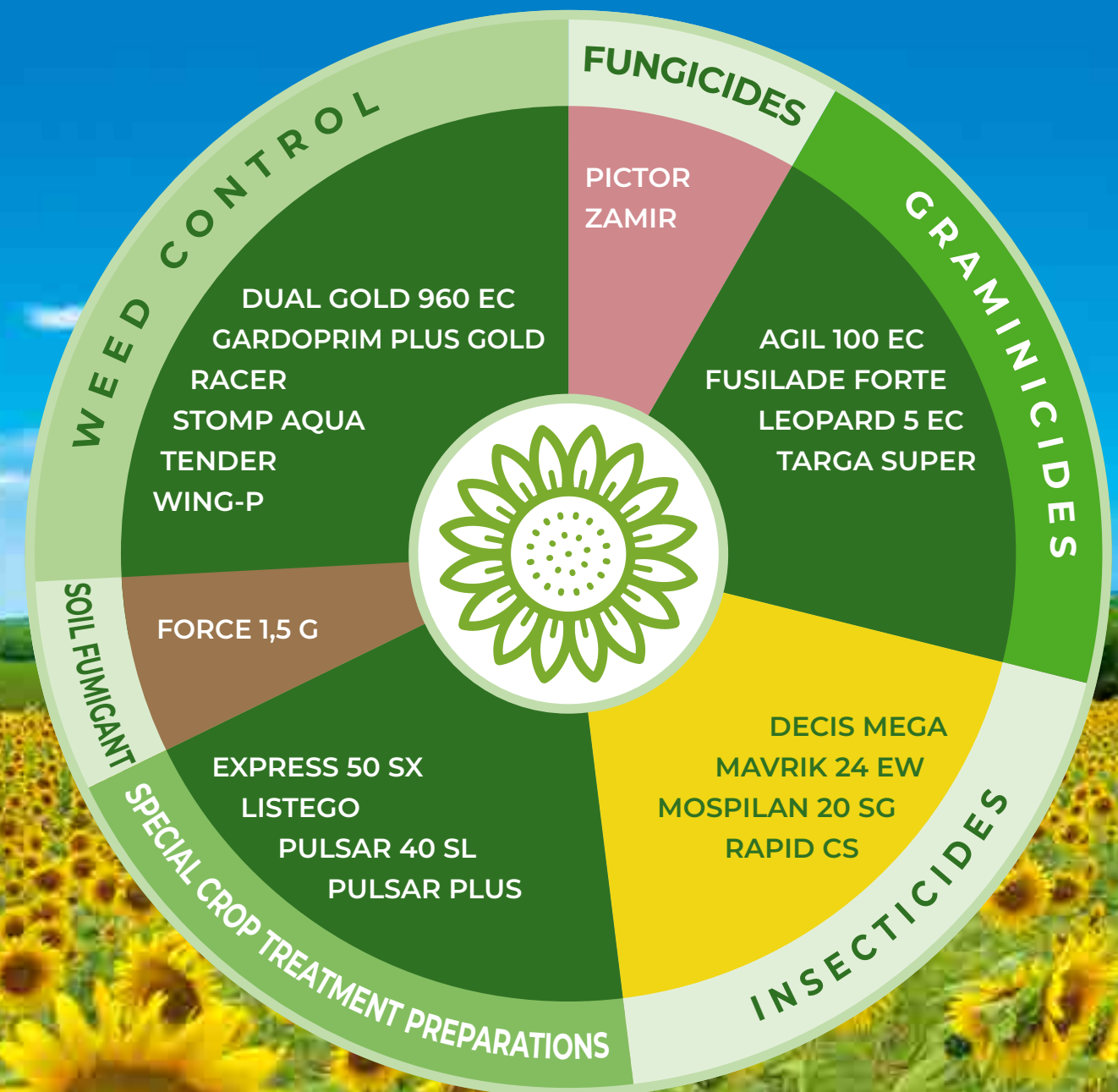
WIDE RANGE OF HERBICIDES,
FUNGICIDES, INSECTICIDES



GENEZIS

Plant protection

SEED SPECIFIC OFFERS BY GENEZIS FOR SUCCESSFUL SUNFLOWER CROPS!



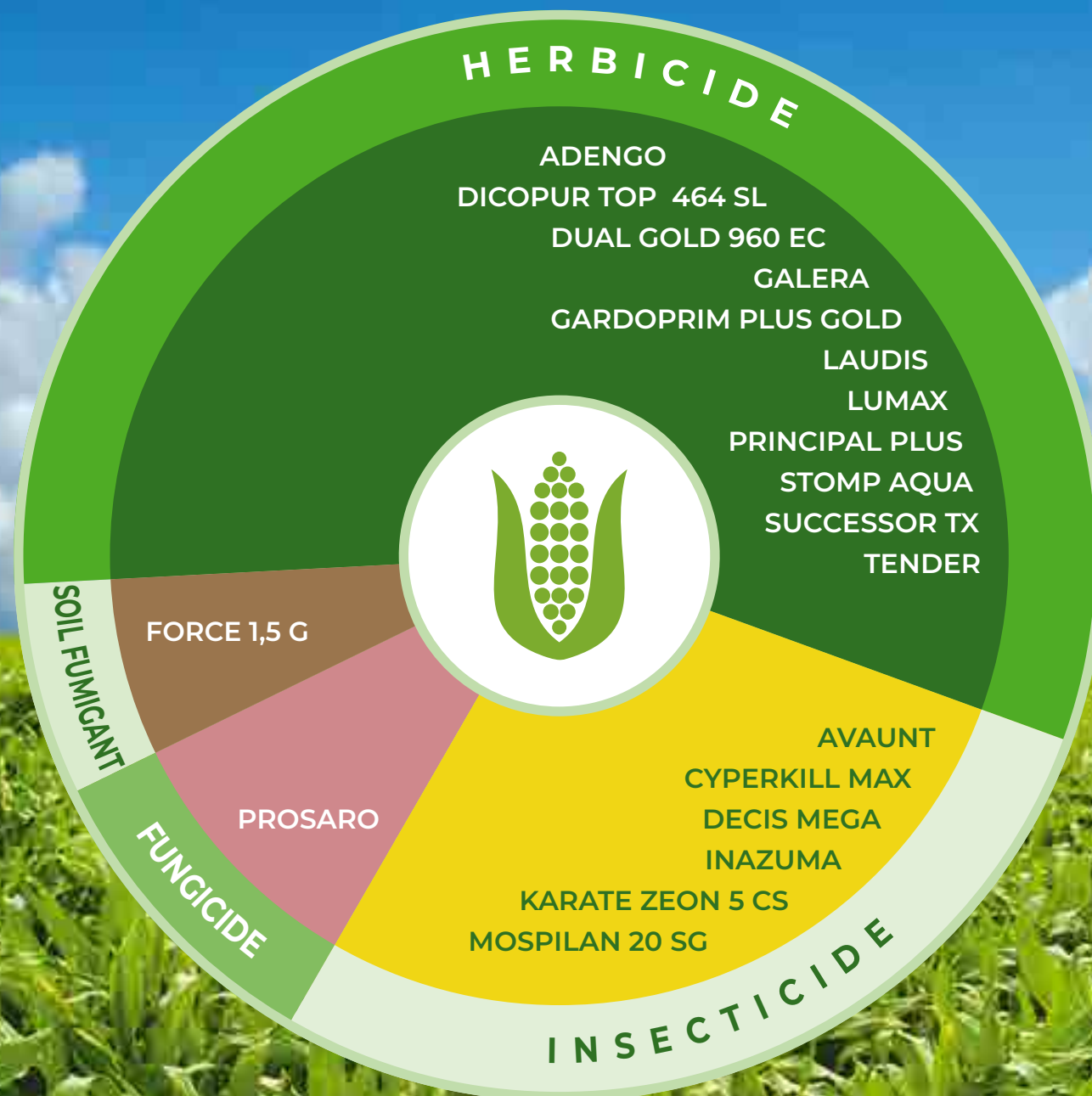
GENEZIS

Plant protection



GENEZIS PRODUCT RANGE FOR THE FARMER'S BENEFIT!

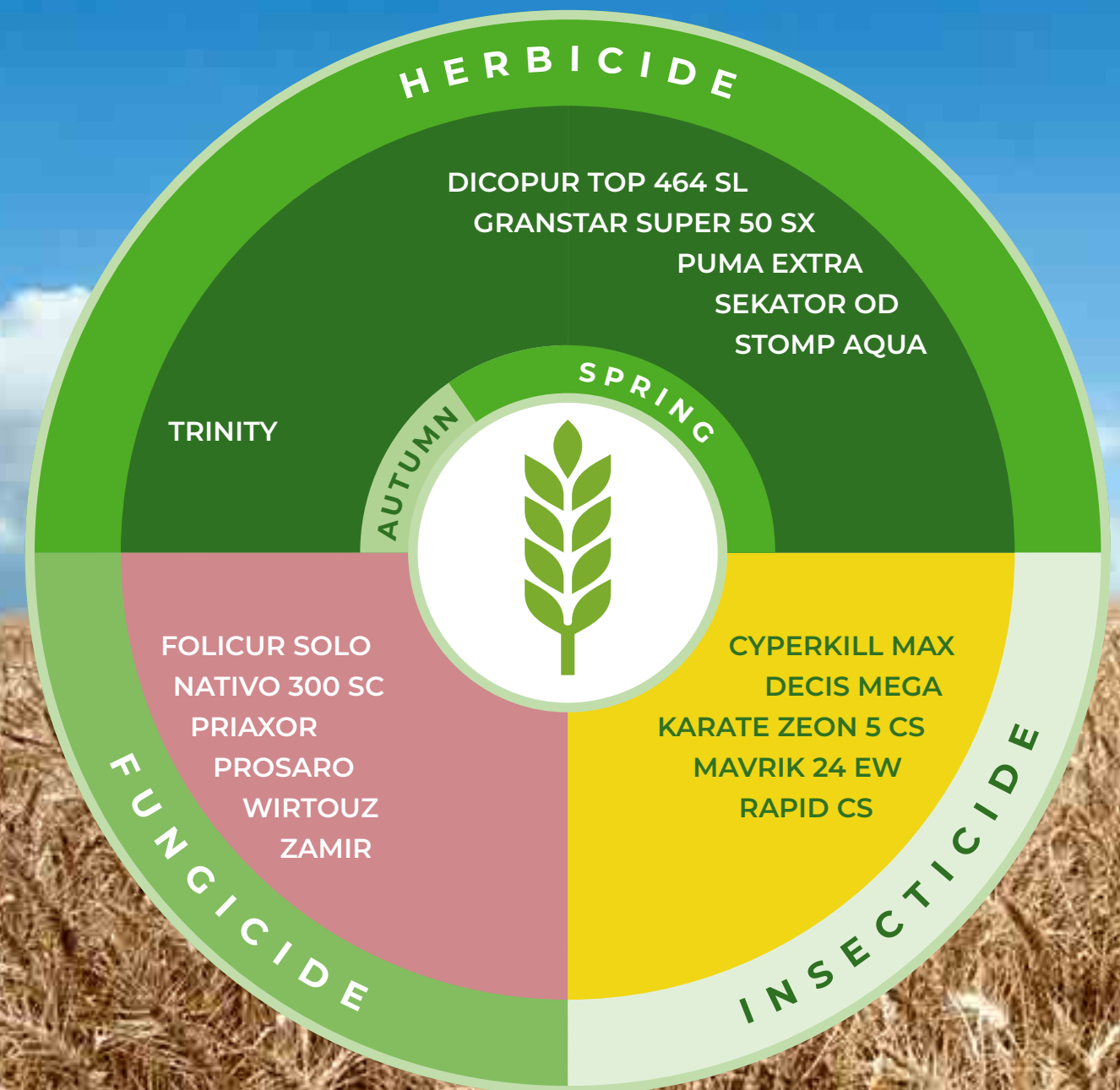
PROVEN PREPARATIONS, RECOGNISED TECHNOLOGY
FOR A TOP CLASS MAIZE CROP!



GENEZIS

Plant protection

COST EFFECTIVE SOLUTIONS BY GENEZIS FOR INTENSIVE GRAIN FARMING!



GENEZIS

Plant protection



GENEZIS CEREAL FOLIAR FERTILISERS

Intensive arable crop production, increasing yields, declining organic fertilisation, unilateral and high-dose NPK fertilisation of soils, have also drawn attention to the need for foliar fertilisation on arableland. In our experience, in large maize-growing areas of the country, zinc has simply become depleted in a significant proportion of soils, but sulphur is also depleting in intensively grown oilseed crops, especially rapeseed and, in general, magnesium and manganese are also decreasing almost everywhere. Recent years have been brought significant development in this area. Today, the use of plant-specific foliar fertilisers has also become part of intensive field technologies. The choice is extremely broad. Even for micronutrient-containing materials, there is a wide choice of products containing simple saline solutions,

suspension solutions and products containing mono- and polymetallic chelates. Our company is committed to using chelating agents. Our experiments prove that we are on the right track. The micronutrient uptake promoting formula, the EDTA chelating agent, presents the microelements in the form that is most easily absorbed by plants. Our foliar fertilisers harmonise perfectly with the plant and landscape-specific Genezis plant feeding technologies. They are chloride-free, take effect instantly and can be applied together with pesticides.

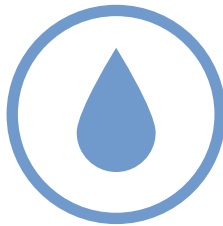


GENEZIS CEREALS FOLIAR FERTILISER

General features: A preparation with a high active ingredient content and micronutrients specially developed for cereals. Recommended for the foliar fertilisation of arable crops, especially cereals, from bushing to earing. Its application ensures greater crop safety. Its nitrogen content is easily absorbed and results in immediate utilisation. Its micronutrient content improves quality and promotes the natural resilience of plants. Through its application, nutrient uptake from the soil can be increased.

With its application, nutrient-deficiency diseases of plants can easily be prevented and cured. It increases plant resistance to pathogens. It provides a rapid nutrient replenishment during the growing season.

Recommended use: Can be applied 2-3 times during the growing season at a concentration of 0.5-2% (applied at a dose of 4-6 l/ha).



ACTIVE INGREDIENT CONTENT				
N	SO ₃	Cu	Zn	Mn
15%	5%	1.5%	0.2%	0.2%



GENEZIS CEREAL FOLIAR FERTILISERS

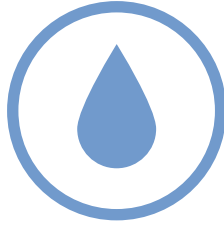
GENEZIS MAIZE FOLIAR FERTILISER

General features: A compound solution fertiliser containing nitrogen and zinc chelate as active ingredients. For foliar fertilisation of arable crops and mainly maize. It can be used for both fodder and sweet corn foliar fertilisation. The nitrogen and zinc content can be easily absorbed and utilised by maize. Zinc is an important micronutrient for maize, as its absence causes poor growth and decreased yields. Because most

of our soils are virtually depleted of zinc. Its use can lead to higher yield. Zinc supplementation must be an integral part of intensive maize cultivation technology!

Recommended use: Can be applied 2-3 times during the growing season at a concentration of 0.5-2% (applied at a dose of 4-6 l/ha).

ACTIVE INGREDIENT CONTENT		
N	Zn	Mn
15%	1,7%	0.3%



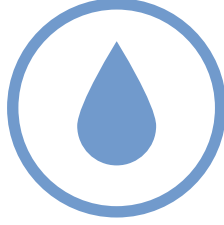
GENEZIS OILSEED CROPS FOLIAR FERTILISER

General features: It is a composite preparation with high active ingredient content. It is recommended for the foliar fertilisation of oilseed crops, especially sunflower and rapeseed, as well as for nutrient replenishment of nitrogen and boron intensive crops and brassicas. Its nitrogen content is easy to absorb and results in immediate utilisation, its boron content ensures proper binding and oil content. Its use can lead to higher yield and higher oil content. It improves quality and promotes the natural

resilience of plants. By using it, nutrient deficiency diseases can easily be prevented and cured. It increases plant resistance to pathogens.

Recommended use: Can be applied 2-3 times during the growing season at a concentration of 0.5-2% (applied at a dose of 4-6 l/ha).

ACTIVE INGREDIENT CONTENT		
N	SO ₃	B
15%	5%	2%



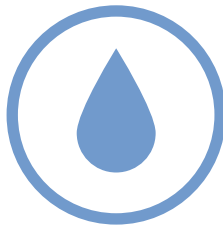
GENEZIS CEREAL FOLIAR FERTILISERS

GENEZIS NITROKÉN FOLIAR FERTILISER

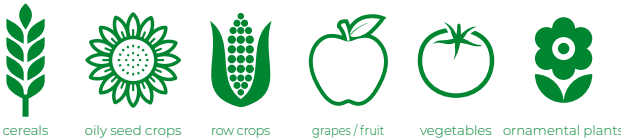
General features: Genezis Nitroken is an effective solution for the foliar fertilisation of sulphur and nitrogen-intensive arable and horticultural crops. Foliar fertilisers generally have high nitrogen and sulphur content. It improves plant condition and resistance to diseases. It boosts yield and improves quality. Its sulphur content improves nitrogen uptake

efficiency, and promotes protein and oil formation. By applying it, the nutrient uptake from the soil can be increased.

Recommended use: Can be applied 2-3 times during the growing season at a concentration of 0.5-2% (applied at a dose of 4-6 l/ha).



ACTIVE INGREDIENT CONTENT	
N	SO ₃
15%	53%



GENEZIS MIKRAMID

General features: The active ingredients it contains are easily absorbed through the leaves of the plants, therefore, it can be used in the form of a soil, top and foliar fertiliser as a source of nitrogen and micronutrient supply. It dissolves quickly in water without any residues. It can be mixed with almost any herbicide and fertiliser without any damage to it. A mixing test is always recommended.

Recommended use: 100-200 kgs/hectare as soil and top fertiliser applied as usual concurrently with the application of nitrogen fertiliser. Suggested strength of the solution as foliar fertiliser (3 to 6 times during the growing season):

- Vegetables, ornamental plants: 0.3-0.6 m/V%
- Cabbage, celery: 0.8-1.0 m/V%
 - Maize 0.4-0.6 m/V%
 - Potato 0.8-1.6 m/V%
 - Sugar beet 2.0-4.0 m/V%
 - Grapes / fruit: 0.6-1.0 m/V%
 - Meadow-pasture: 1.0-1.5 m/V%

Advantages of the product: The amide-bound nitrogen absorbed via the roots and foliage directly integrates in the amino acids that play an important role in growth.

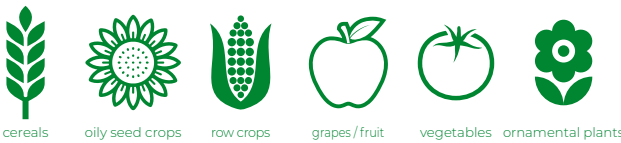
The trace elements accelerate chlorophyll formation and crops will turn green. Rapid immediate effect in case of nitrogen deficiency symptoms. May be applied on all soil types. It dissolves perfectly in water.

It can be spread together with plant protection treatments, in a single application. It promotes the rapid initial development and winter hardiness of oily plants and winter wheat. The micronutrient supplemented version helps prevent deficiency symptoms. Its active ingredients dissolve well in water, ensuring excellent utilisation.

Recommended crop: Recommended for all arable and horticultural crops.



ACTIVE INGREDIENT CONTENT	
Nitrogen	Micronutrient
45%	0.3%



GENEZIS CEREAL FOLIAR FERTILISERS

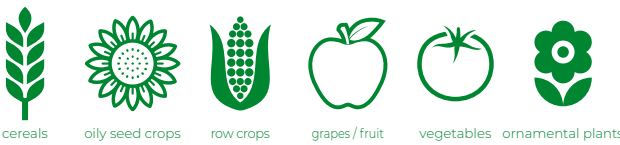
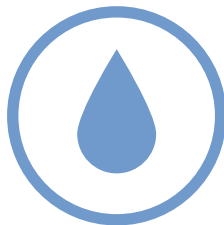
GENEZIS NITROSPEED

General features: A nitrogen-dominant liquid fertiliser solution. Multiple nitrogen formulations (amide nitrate ammonia) promote even, rapid plant growth. No washing in precipitation is required. It provides nitrogen supply even during dry periods. Its meso-nutrient content helps maintain nutrient harmony, resulting in better utilisation of the nitrogen form. It is excellent for promoting the favourable development of plant growth processes. It helps to overcome environmental stress and to increase plant resilience. It can also be used as an additional top dressing and, to a lesser extent, as a foliar fertiliser. Its quickly absorbable nitrogen and meso- nutrient content improves plant

condition and resistance to diseases. It boosts yield and improves quality. Its sulphur content improves nitrogen uptake efficiency, and promotes protein and oil formation. Magnesium is a component of chlorophyll. It also affects plant hormones and enzymes. It can be applied alone or mixed with pesticides simultaneously. It has an excellent adjuvant effect and enhances the absorption and effectiveness of plant protection products. It is recommended to always carry out a mixing test. In addition to the above state of development, it is recommended to apply as a foliar fertiliser in all crops at a dose of 4-5 l/ha with a volume of 250-300 liters of water.

ACTIVE INGREDIENT CONTENT GENEZIS NITROSPEED	
Nitrogen (N):	23%
Of which ammonia-nitrogen:	1%
Amide-nitrogen:	20%
Nitrate-nitrogen:	2%
Sulphur trioxide (SO ₃):	5.3%
Magnesium oxide (MgO):	3%

ACTIVE INGREDIENT CONTENT GENEZIS NITROSPEED PLUSZ	
Nitrogen (N):	23%
Of which ammonia-nitrogen:	1%
Amide-nitrogen:	20%
Nitrate-nitrogen:	2%
Sulphur trioxide (SO ₃):	5.3%
Magnesium oxide (MgO):	3%
Zinc (Zn)	0.2 %
Manganese (Mn):	0.1%
Molybdenum (Mo):	0.01%



RECOMMENDED USE OF GENEZIS NITROSPEED AND NITROSPEED PLUSZ			
Crop	Recommended dosage as supplementary top dressing	Recommended dosage as foliar fertiliser	Recommended application
Cereals	20-25 l/ha	5 l/ha	From the start of tillering
		5 l/ha	When the flag leaf expands
Rapeseed	20-25 l/ha	5 l/ha	At the rosette stage
		5 l/ha	Hidden yellow bud stage
Maize	20-25 l/ha	5 l/ha	At the 4-6 leaf stage
		5 l/ha	At the beginning of tasselling
Sunflower	20-25 l/ha	5 l/ha	At the 5-6 leaf stage
		5 l/ha	Until starbud stage
Sugar beet	20-25 l/ha	5 l/ha	4-6 leaves
		5-7 l/ha	At row closure

GENEZIS MIKROMIX PRODUCT FAMILY

Recommended also for arable and horticultural crops

General features: MIKROMIX preparations can prevent and cure plant diseases caused by micronutrient deficiency. The MIKROMIX micronutrient concentrate contains the nutrients in a chelated form, as a result of which the plants can utilise the applied micronutrients almost immediately and completely. The chelating molecule is included to ensure maximum supply to plants.

Recommended use: With foliar fertilisation, it can be applied 2-3 times during the growing season at a dose of 2-6 l/ha.

Advantages of the product: Micronutrient deficiency diseases are eliminated quickly and effectively because the ingredients are chelated in the form that is most easily absorbed by the plants. The nutrient ratio of the plant-specific forms is tailored to the micronutrient requirements of each plant species. They increase yield volume and improve its quality. Their use increases the resistance of plants to diseases and improves their condition. Its application also allows for more efficient water utilisation and increased drought tolerance.

ACTIVE INGREDIENT CONTENT							
Active ingredient content %		B	Cu	Fe	Zn	Mn	Mo
MIKROMIX	A - iron-magnesium			3%			5%
MIKROMIX	A - copper		5%				
MIKROMIX	A - zinc				5%		
MIKROMIX	A - manganese					5%	
MIKROMIX	A - grapes / fruit	0.6%	0.1%	3%	0.4%	0.5%	0.05%
MIKROMIX	A - vegetables/ ornamentals	0.6%	0.1%	1.5%	0.6%	0.5%	
MIKROMIX	A - cereals	0.4%	2%	0.5%	0.3%	0.2%	
MIKROMIX	A - potatoes	0.4%	0.2%	0.3%	0.4%	0.9%	
MIKROMIX	A - maize	0.2%	0.3%		2.2%	0.2%	
MIKROMIX	A - oilseed	1.2%	0.4%	1%	0.6%	0.2%	
MIKROMIX	A - sugar beets	1.5%	0.4%	0.8%	0.4%	0.4%	
MIKROMIX	A - leguminous crops	0.5%	0.5%		1%	1%	



cereals

oily seed crops

row crops

grapes/fruit

vegetables

ornamental plants

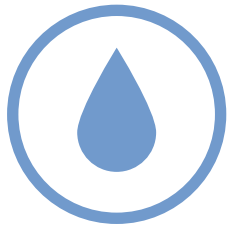
GENEZIS MIKROMIX-A GRAPES / FRUIT

General features: Grape, fruit, vegetable and ornamental plant crops to prevent and cure micronutrient deficiency diseases. Chloride-free, quick effect foliar fertiliser. Ensures rapid and effective elimination of micronutrient deficiency diseases and the development of the optimal micronutrient level of the developing leaves and fruits. The uptake, transport and incorporation of micronutrients within the plant is very complex, which makes it difficult for the appropriate amount to reach the place of use.

During the growing season, it is essential to replenish micronutrients via the foliage on a continuous basis.

Recommended use: Grapes / fruit: Mikromix micronutrient concentrate quickly and effectively eliminates micronutrient deficiency diseases, improves yield quantities, quality and disease resistance. 2-6 l/hectare (0.2-0.6% concentration) as foliar fertiliser

ACTIVE INGREDIENT CONTENT					
B	Cu	Fe	Zn	Mn	Mo
0.6%	0.1%	3%	0.4%	0.5%	0.05%



cereals

oily seed crops

row crops

grapes / fruit

vegetables

ornamental plants

GENEZIS MIKROMIX-A VEGETABLES-ORNAMENTAL PLANTS

General features: Can be used to cure micronutrient deficiency diseases quickly and effectively and to establish the optimum micro-element levels in the developing leaves and crop.

Recommended use:

Vegetables:

As foliar fertiliser:
2-6 l/hectare (0.2-0.6% concentration)

Ornamental plants:

As soil fertiliser:
0.25-1.25 dl/10 l water/plant
As foliar fertiliser:
2-6 l/hectare (0.2-0.6% concentration)

ACTIVE INGREDIENT CONTENT					
B	Cu	Fe	Zn	Mn	Mo
0.6%	0.15%	1.5%	0.6%	0.5%	0.05%



cereals

oily seed crops

row crops

grapes / fruit

vegetables

ornamental plants

GENEZIS CEREAL FOLIAR FERTILISERS

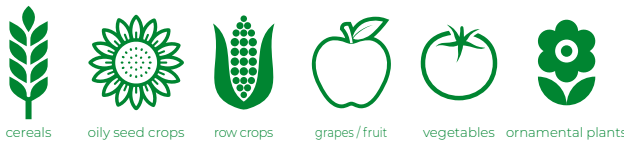
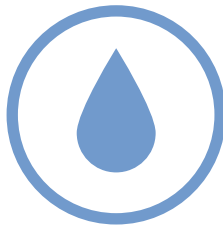
PÉTIBÓR EXTRA

General features: Boron is one of the most important micronutrients. Without it, the growth of shoots stops, and the growing tips die. Boron deficiency in plants causes poor binding, it often prevents flowering and results in distorted leaves. Pétibór Extra is a modern boron fertiliser, produced on the basis of the latest research, which contains the boron nutrient in the form of a solution, as an organic compound. It is an agent that increases biochemical efficiency and meets environmental requirements. It can also be used safely in ecological and organic farming. Agricultural trials performed by using this preparation demonstrate its efficiency, even in small doses, due to its high efficiency. It contains at least 10% elemental boron, corresponding to a 135 g/litre boron, i.e. 772 g boron acid/litre concentration. Frost resistance is guaranteed to -10 °C. Any extraction of the active ingredient at a lower temperature is automatically resolved by re-heating. This feature increases storage security, even in a poorly insulated space.

A clear, slightly yellowish, odourless liquid, possibly with an odour bearing a slight resemblance to ammonia. The pH of the concentrated solution is 6.9-7.0 which varies to 7.8-8.0 depending on the dilution in the spray liquid. It promotes the fertilisation of flowers and increases binding. It increases sugar beet yield, sugar content and sugar extractability (reduces harmful N and Na content, while increasing K content without any potassium fertilisation intervention). It adheres well to the foliage and does not dry out for a long time, thus improving its efficiency. The boron is in the form that is most easily absorbed by plants. Its use is effective even in small doses. To improve cost-effectiveness, it can be applied at the same time as crop protection. Symptoms of boron deficiency can be quickly eliminated during the growing season.

Nutrient content: 10% (135 g/l)
Boron, active ingredient: boron-ethanolamine

Suggested use as a foliar fertiliser:		
	Dose	Application
Sugar beet	3-5 l/ha	From 4 to 6 leaves until the end of August
Sunflower	3-5 l/ha	From 3- to 4-leaf stage until one week before flowering, and after flowering
Winter swede rape	3-5 l/ha	In autumn to increase winter hardiness, in spring from staking to flowering
Wheat	2-4 l/ha	From the emergence of the flag leaf until the end of earing
Maize	2-4 l/ha	At the 3-leaf stage, then for one week before flowering
Soy	3-5 l/ha	Before pod bonding



GENEZIS CEREAL FOLIAR FERTILISERS

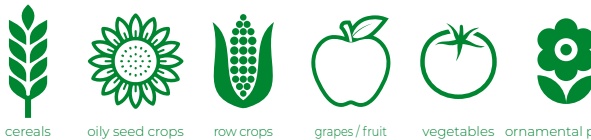
PÉTISOL PRODUCT FAMILY

General features: The GENEZIS-PÉTISOL product line is a chloride-free, liquid foliar and soil fertiliser containing nitrogen, phosphorus and potassium, including micronutrients (iron, copper, zinc, manganese, boron, molybdenum). The GENEZIS-PÉTISOL product family is recommended for use on arable lands to prevent or rapidly eliminate temporary phosphorus and potassium deficiencies. It provides a harmonious supply of nutrients due to its high active ingredient content. It can be used during the growing season to establish an suitable for foliar fertilisation of arable crops in case of phosphorus and potassium deficiency. It is especially suitable for eliminating temporary phosphorus deficiency during cool periods. Boron supplementation can be used effectively to 'cure' poorly wintered, poorly developed rapeseed and cereals in early spring.



Recommended use: Can be applied 2-3 times during the growing season at a dose of 5-10 l/ha through the leaves. Small-scale farmers are recommended to use it in a dilution of 1-2 dl of preparation/10 liters of water/100 m². For nutrient irrigation a dilution of 0.05-0.1% (0.5-1 dl of preparation per 100 liters of water) is recommended and should be repeated according to the needs of the plant.

ACTIVE INGREDIENT CONTENT				
	N	P ₂ O ₅	K ₂ O	ME
Nitrogen rich Genezis Pétisol	14%	7%	9%	0.1%
Genezis Pétisol Phosphorus and potassium rich	6%	10%	13%	0.1%
Genezis Pétisol Tobacco	5%	7,5%	10%	0.1%

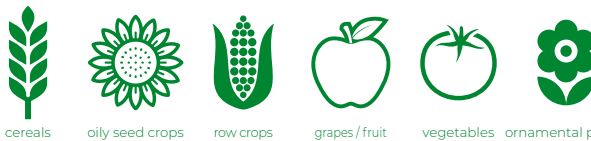
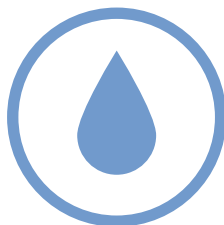


PÉTISOL PHOSPHORUS AND BORON

General features: Perfectly water-soluble, chloride-free liquid complex foliar and soil fertiliser that also contains chelated micronutrients, which help the nutrient uptake of plants.

Recommended use: It can be used in the case of phosphorus and boron deficiency. Its regular use ensures healthy and vigorous growth in plants and their balanced nutrient supply. 2 to 3 times during the growing season, in a 1-2 % concentration (5-10 l/ha spread in 500-1000 l/ha water).

ACTIVE INGREDIENT CONTENT		
N	P ₂ O ₅	B
8%	20%	1%

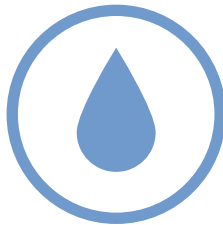


GENEZIS CEREALS BS

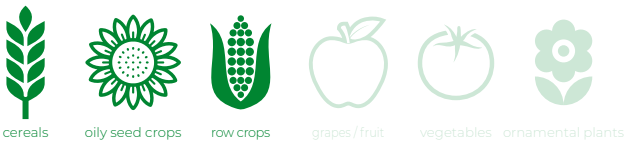
General features: Plant conditioner product. A composite preparation with high active ingredient content for foliar fertilisation of arable crops and cereals, from bushing to earing. It improves the stress resistance of plants. It has a positive effect on the natural life processes of the plant. Its application has a positive effect on the quantity and quality of the crop. It is a chloride-free, instant

effect foliar fertiliser. When applied in the autumn, it enhances winter hardiness, helping to regenerate weakened crops in early spring. Improves drought tolerance.

Recommended use: Can be applied 2-3 times during the growing season at a concentration of 0.5-2% (applied at a dose of 4-6 l/ha).



ACTIVE INGREDIENT CONTENT					
Amino acid content	N	SO ₃	Cu	Zn	Mn
13.4%	10.7%	3.5%	1.1%	0.1%	0.1%

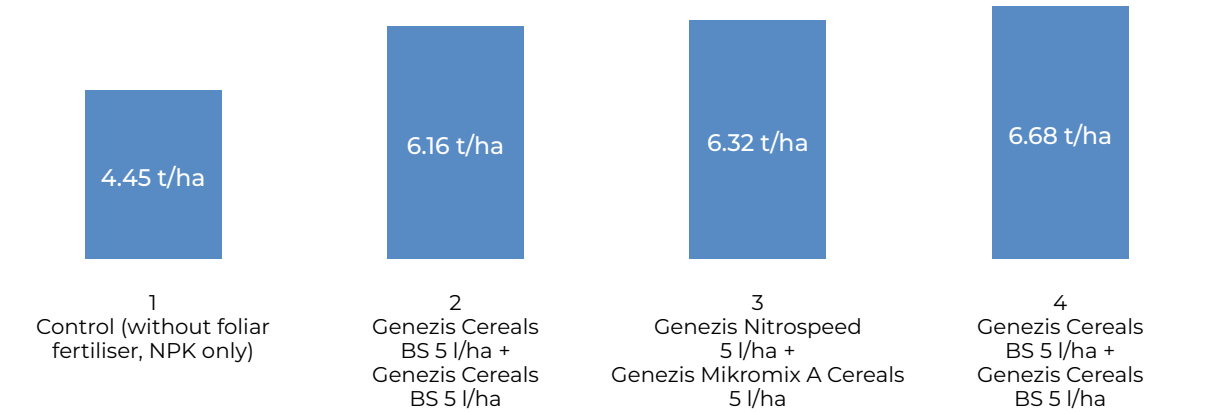


WHEAT FOLIAR FERTILISER EXPERIMENT, HEVES 2019

Stress caused by water shortage, with adequate nutrient supply (in our case: NPK = 135/36/36), the use of foliar fertilisers and especially biostimulators pays off, allowing economical production. In our experiment, used alongside amounts of 1.71 and 1.87 of foliar fertiliser, the bio stimulator resulted

in an additional yield of 2.23 t/ha compared to the control treatment without foliar fertilisation. Rational product selection that adapts to the place of production and technology, in this case the bio stimulator, is the most profitable investment even in dry years.

Treatments (5 April and 12 May) and results:



GENEZIS MIKROMIX BS

General features: A high active ingredient preparation for foliar fertilisation of maize and other zinc-intensive plants. These amino acid products replenish the amino acid reserves of plant cells, making protein synthesis faster and more efficient. It improves the stress resistance of plants. It has a positive effect on the natural life processes of the plant. Its application has a positive effect on the quantity and quality of the crop. It is a chloride-free, instant effect foliar fertiliser.

By applying it, the nutrient uptake from the soil can be increased.

ACTIVE INGREDIENT CONTENT			
Amino acid content	N	SO ₃	Zn
14%	1.3%	4.2%	3.5%

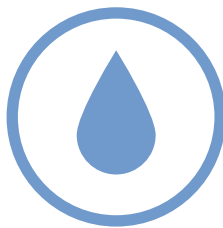
Recommended use: Can be applied 2-3 times during the growing season at a concentration of 0.5-2% (applied at a dose of 2-6 l/ha). It improves nitrogen uptake efficiency, and promotes protein and oil formation.



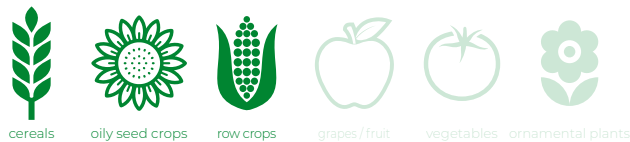
GENEZIS BIOSTIMULANT FOLIAR FERTILISERS

GENEZIS OILSEED CROPS BS

Recommended use: Crops with a high boron need, recommended for the treatment of, e.g. rapeseed and sunflower. As a foliar fertiliser in a dose of 4-6 litres/ ha, mixed with 250-300 litres of water.



ACTIVE INGREDIENT CONTENT			
Amino acid content	N	MgO	B
13.5%	10.4%	4%	1.2%



GENEZIS NITROSPEED BS

General features: A liquid fertiliser solution with a high nitrogen content, including magnesium and amino acids.

Most of the nitrogen content can be taken up immediately through the leaf, with a smaller portion thereof being a slower- acting form of nitrogen.

ACTIVE INGREDIENT CONTENT			
Amino acid content	N	SO ₃	MgO
5.7%	18%	4.1%	2.1%



GENEZIS BIOSTIMULANT FOLIAR FERTILISERS

GENEZIS NITROSPEED BS

RECOMMENDED USE OF GENEZIS NITROSPEED BS			
Crop	Recommended dosage as supplementary top dressing	Recommended dosage as foliar fertiliser	Recommended application
Cereals	20-25 l/ha	5 l/ha	From the start of tillering
		5 l/ha	When the flag leaf expands
Rapeseed	20-25 l/ha	5 l/ha	At the rosette stage
		5 l/ha	Hidden yellow bud stage
Maize	20-25 l/ha	5 l/ha	At the 4-6 leaf stage
		5 l/ha	At the beginning of tasselling
Sunflower	20-25 l/ha	5 l/ha	At the 5-6 leaf stage
		5 l/ha	Until starbud stage
Sugar beet	20-25 l/ha	5 l/ha	4-6 leaves
		5-7 l/ha	At row closure

Recommended water amount: 250-350 l/ha!

GENEZIS HORTICULTURAL FOLIAR FERTILISER

GENEZIS SAVASTRENE FE (GRANULAR IRON CHELATE)

Packaging: Plastic bucket 3 kg, plastic bag 10 kg, plastic box 0.6 kg.

General features: The chelating agent – EDTA – makes the iron more usable for the plant. Apply to prevent iron deficiency diseases and cure already present deficiency diseases in crops. The micro-granule format preparation should be dissolved in water while stirring constantly, then spread on the plant or area to be treated. It can be continuously fed via an irrigation system, e.g. by drip irrigation. It can be mixed with other fertilisers in a fertiliser solution.

Recommended use: Foliar fertilisation: a 0.5-1% (0.5-1 g/litre) solution.

Feed solution application: Average dose: 0.005-



0.05% (0.05-0.5 g/litre). For formulating the nutrient solution with the required concentration. For soil fertilisation: Cut flowers, vegetables: For prevention: 2-10 g/m² To remedy iron deficiency: 5-15 g/m² dissolved in 4-6 litres/m² of irrigation water. For drip irrigation in a concentration of 0.005-0.02% (0.05-0.2 g/litre) or as per professional advice. Roses: 5-15 g/plant, dissolved in 5 to 10 litres of water per plant and irrigated in. Grape: 10-30 g/vine, depending on the age of the vine and the extent of the iron deficiency, dissolved in 8 to 10 litres of water, irrigated in around the vine.

Fruit trees: 20-50 g/tree, dissolved in 10 to 50 litres of water and irrigated in the dripline area of the tree.

ACTIVE INGREDIENT CONTENT	
Fe	
13%	



GENEZIS HORTICULTURAL FOLIAR FERTILISER

GENEZIS SAVASTRENE FE (SOLUTION)

Packaging: 10 litre carboy.

General features: A fertiliser solution with organically bound iron chelate. Contains stable iron chelate. It is particularly suitable for the prevention of iron deficiency diseases and for the elimination of already established deficiency diseases.

Recommended use: The preparation is suitable for both foliar or soil application.

Due to its special chelating form, it remains stable and effective for a long time even in extreme pH ranges, thus providing long-range protection from iron deficiency.

Savastrene Fe provides good shoot growth and healthy, fresh foliage. By applying it, a 10-30% yield surplus can be achieved.

Iron as a structural component is important in photosynthesis, respiration, oxidation and reduction processes.



ACTIVE INGREDIENT CONTENT	
Fe	
3,0%	



GENEZIS KALCINOL PRODUCT LINE

General features: They are chloride-free. Fast acting soil and foliar fertilisers. Ensure rapid and effective elimination of lime deficiency diseases and the development of the optimal calcium level of the developing leaves and fruits. This is of particular importance in the case of plants that are continuously producing their crops. The uptake, transport and incorporation of calcium within the plant is a very complex process, which makes it difficult for the appropriate amount to reach the fruit in the growing season. During the growing season, it is essential to replenish calcium via the foliage on a continuous basis.

Recommended use:

Vegetables For foliar fertilisation:

Recommended to use 3 to 5 times during the time of crop and berry development in a 0.1-1.0 V/V% solution (add 1-10 dl of Kalcinol or Kalcidol to 100 litres of water). Feed solution application: Recommended to use a 0.05-0.1 V/V% solution (add 0.5-1.0 dl of Kalcinol or Kalcidol to 100 litres of water). Quickly eliminates calcium and magnesium deficiency in a 0.5-1.0 V/V% solution, repeat application every 10 to 14 days and continue foliar fertilisation until the deficiency is eliminated.

Cereals, potato, sunflower As foliar fertiliser:

Recommended to use a 0.5-1.0 V/V% solution (add

5-10 dl of Kalcinol or Kalcidol to 100 litres of water) during the foliar growth stage, then after flowering.

Grapes, fruits As foliar fertiliser:

Recommended to use a 0.5-1.0 V/V% solution (add 5-10 dl of Kalcinol or Kalcidol to 100 litres of water) after flowering, then during the growth stage for 4 to 5 times.

Advantages of the product: It enhances root activities by supplying plants with nutrients which they can quickly absorb when the root system of the plant has limited capability of taking up nutrients due to low soil temperature.

The calcium it contains has a beneficial effect on the carbohydrate and nitrogen metabolism of the plants and on the development of proper cell walls and enhances the plant's resistance to diseases.

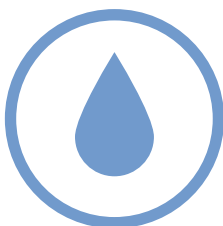

The magnesium it contains enhances plant chlorophyll formation and promotes photosynthesis.

It eliminates relative magnesium deficiency arising from the overuse of NPK (nitrogen-phosphorus-potassium).







It increases the storage life of apples and pears and prevents bitter pits and cork spots from developing. Recommended to use to prevent cracks on the ripening sweet cherry fruit and to extend the storage life of vegetables and onions.

It prevents the blossom-end rot of paprika, tomatoes and eggplants arising from calcium deficiency and the internal tipburn of cabbages.

GENEZIS Kalcinol



ACTIVE INGREDIENT CONTENT	
N	Ca
8%	12%



cereals

oily seed crops

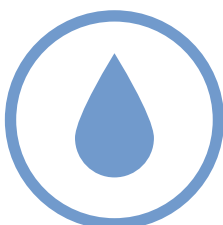

row crops

grapes / fruit







vegetables

ornamental plants

GENEZIS Kalcidol



ACTIVE INGREDIENT CONTENT		
N	Ca	MgO
8%	9.4%	2%



cereals

oily seed crops

row crops

grapes / fruit

vegetables

ornamental plants



GENEZIS PÉTI MIX PRODUCT FAMILY

The water-soluble irrigation fertiliser product line

Perfectly water-soluble without residue (100%), for feed solution application and foliar fertilisation of complex fertilisers supplemented with micronutrients.

General features: Chloride-free, solid, 100% water soluble, sediment-free fertiliser product family. Contains all nutrients, macro- and micronutrients necessary for the balanced development of plants. All their components can be absorbed quickly by the plant. Their micronutrient content is chelated, so they do not bind to the soil particles, they are utilised

without loss. They can also be used in irrigation fertilisation technologies.

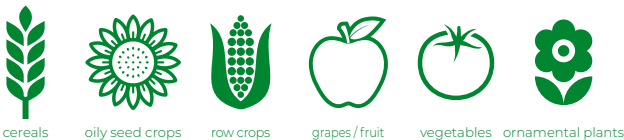
Recommended use: Mainly for feed solution application and foliar fertilisation, for ornamental plants and vegetables grown in a polytunnel, for open field ornamental plants and vegetables, for cereals, potatoes, vineyards and orchards.

Recommended crop: For feed solution application and foliar fertilisation of vegetables and ornamental plants. Recommended amount in a concentration of 0.05-0.1% according to the needs of the plant. It can also be used as a foliar fertiliser in a concentration of 0.5-1%.

GENEZIS PÉTI MIX STARTER



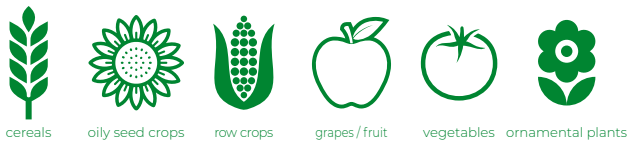
ACTIVE INGREDIENT CONTENT					
Total Nitrogen	NH ₄ -N	NH ₂ -N	P ₂ O ₅	K ₂ O	ME
15%	6%	9%	30%	15%	0.2%



GENEZIS PÉTI KOMPLEX I., II., III.



ACTIVE INGREDIENT CONTENT					
	Total Nitrogen	NH ₄ -N	NH ₂ -N	P ₂ O ₅	K ₂ O
Péti Komplex I.	14%	7.5%	6.5%	7%	21%
Péti Komplex II.	10%	6%	4%	-	25%
Péti Komplex III.	15%	1.2%	13.8%	5%	30%



GENEZIS HOBBY GARDEN PRODUCTS

GENEZIS NUTRITIVE SOLUTIONS AND NUTRITIVE SALTS

GENEZIS-PÉTISOL PRODUCT LINE (1-LITER NUTRIENT SOLUTION)

General features: Modern foliar fertilisers developed for special crops. Their composition is adapted to the nutrient needs of the given plant. They are chloride-free. Rapid acting foliar fertilisers. Can be used to cure deficiency diseases quickly and effectively and to establish the optimum nutrient levels

Recommended use: In a home garden, 1-2 dl of the preparation dissolved in 10 litres of water is enough for 100 m². For nutrient irrigation, it is recommended to use it in a dilution of 0.05-0.1% (0.5-1 dl of the preparation per 100 of water) with repetition according to the needs of the plant. Spreading should be followed by further thorough irrigation.

Packaging: 1l bottle.



ACTIVE INGREDIENT CONTENT				
	N	P ₂ O ₅	K ₂ O	ME
Genezis-Pétisol General	5	5	5	0.1
Genezis-Pétisol Geranium	5.5	5.5	5.5	0.1
Genezis-Pétisol Annual Flower	6	4.5	6	0.1
Genezis-Pétisol Lawn	9	3	4	0.1
Genezis-Pétisol Evergreen	8	3	4	0.1
Genezis-Pétisol House plant	7	4	5	0.1
Genezis-Pétisol Vegetable	6	4.5	6	0.1
Genezis-Pétisol Citrus	5	3.5	7	0.1
Genezis-Pétisol Rose and Ornamental Shrub	5	3.5	7	0.1
Genezis-Pétisol Orchid and Bromelia	3.5	5	7	0.1



GENEZIS HOBBY GARDEN PRODUCTS

GENEZIS NUTRITIVE SOLUTIONS AND NUTRITIVE SALTS

GENEZIS NUTRITIVE SALTS

It has everything the plant needs! Dosing spoon in the bucket!

Perfectly water-soluble complex fertiliser with micronutrients for gardening and home garden use. All of their components are in salt or chelated form that is easily absorbed by the plant.

General features: Chloride-free, solid fertiliser line. Contains all nutrients, macro- and micronutrients necessary for the balanced development of plants. All their components can be absorbed quickly by the plant. Modern foliar fertilisers developed for crops. Their composition is adapted to the nutrient needs of the given plant. EK fertilisers.

Recommended use: Can be used in growing vegetables, ornamentals and fruit. Foliar fertilisation: 0.3% (30g in 10 litres) every 5-10 days. In a home garden, dissolve 2 tablespoons of salt in 10 of water and apply at the base of plants. Treatment is performed once a week, or twice a week for plants with stronger growth. For nutrient irrigation, it is recommended to use it in a dilution of 0.05-0.1% with repetition according to the needs of the plant. Spreading should be followed by further thorough irrigation.

Packaging: 0.5 kg bucket (16 pcs/carton).



ACTIVE INGREDIENT CONTENT				
	N	P ₂ O ₅	K ₂ O	ME
Genezis Geranium nutritive salt	14	7	21	0.2
Genezis Virágvarázs nutritive salt	14	7	21	0.2
Genezis House Plant nutritive salt	24	11	11	0.2
Genezis Patio Plant nutritive salt	8	16	23	0.2



GENEZIS HOBBY GARDEN PRODUCTS

SMALL PACK

GENEZIS NPK 0:10:20 (PK)

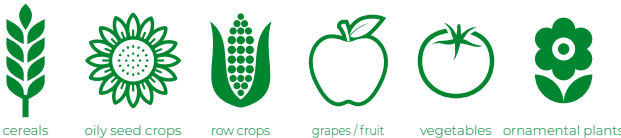
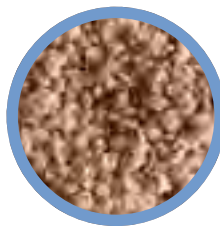
Packaging: 5 kg bag, 10 kg bag.

General features: Can be used as a general spring and autumn basal dressing fertiliser for all horticultural crops.

Advantages of the product: Its active ingredients disperse well in water, therefore it can be spread both in the autumn and in springtime.

Recommended use: Primarily for crops with a high potassium demand where N application is not justified, or is recommended for soils with low potassium content. Fertiliser recommended for autumn and spring basal dressing. Following the soil test, it should be applied at the dose calculated by the ProPlanta expert advice programme (250-500 kg/ha depending on the crop and soil type).

ACTIVE INGREDIENT CONTENT			
P ₂ O ₅	K ₂ O	CaO	MgO
10.0%	20.0%	14.2%	9.9%



GENEZIS HOBBY GARDEN PRODUCTS

SMALL PACK

GENEZIS NPK 8:15:15

Packaging: 5 kg bag, 10 kg bag.

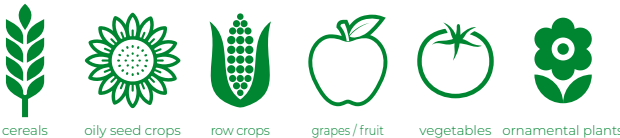
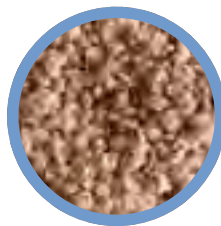
General features: A complex fertiliser that can be used as a general spring and autumn basal dressing fertiliser for all horticultural crops (for chloride-sensitive crops, it must be applied no later than 2 weeks before planting). The active ingredients dissolve well in water. It is primarily recommended for crops with high potassium demand and for soils with low potassium content.

Advantages of the product: Its active ingredients

disperse well in water, therefore it can be spread both in the autumn and in springtime. Fertiliser with a medium amount of nitrogen and a high amount of phosphorus and potassium.

Recommended use: It is mostly recommended for autumn basal dressing. Following the soil test, it should be applied at the dose calculated by the ProPlanta expert advice programme (250-500 kg/ha).

ACTIVE INGREDIENT CONTENT				
N	P ₂ O ₅	K ₂ O	CaO	MgO
8.0%	15.0%	21%	7.4-7.9%	5.2-6.8%



GREENING VITAMIN - SAVASTRENE FE-13

Packaging: 100 gram pack.

Recommended use: Foliar fertilisation: dissolve 0.5-1 tablespoons (5-10 g) of granules in 10 of water, stirring constantly, and apply to the foliage of the plant with a handheld or backpack sprayer.

Feed solution application: Dissolve 0.5 tablespoon (5g) of salt in 10 liters of water and apply at the base of plants. Never fertilise foliage in sunny weather, choose the morning and early evening hours instead.

Recommended crop: For ornamental crops, since most ornamentals are very sensitive to micronutrient deficiency, which reduces their ornamental value.

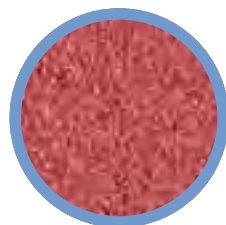
For vegetables crops, it ensures adequate iron supply.

Use in vineyards and orchards, for growing and maintaining a healthy, abundant crop.

ACTIVE INGREDIENT CONTENT

Fe

13%



cereals



oily seed crops



row crops



grapes/fruit



vegetables



ornamental plants



GENEZIS SPECIAL FLOWER GARDEN NPK

Packaging: Plastic bag 5 kg.

General features: Due to its balanced composition and micronutrient content, Genezis Special Flower Garden NPK fertiliser provides excellent and balanced nutrition to plants during the entire growing season. It increases yield volume and the period of durability and improves quality and nutritional values.

The appropriate micro-, meso- and macronutrients stimulate the growth and development of the plant. This preparation can be used from early spring until the end of summer, both for nutrient refill before planting and for nutrient replenishment during the growing season.

Advantages of the product: Its main active ingredients are nitrogen, potassium, phosphorus, and it also contains iron, calcium and magnesium, which nourish the plants, make them more resistant to

environmental influences and make them grow stronger, bloom and provide a more plentiful crop. Our plants can take up nutrients as they need, without excessive nitrate storage in the plant. Due to its calcium and magnesium content, it increases cell solidity, the occurrence of physiological disturbances become less frequent, and thus the produce stores better.

Recommended use: Its main active ingredients feed the plants and make them more resilient against environmental effects, make growth and flowering more vigorous and give a more plentiful yield. As the most intensive growth period is in the spring, the best effect can be achieved when we use this preparation 2 or 3 times in this period and during the growing season. The preparation is applied to the roots of the plants, evenly distributed. To achieve the optimal effect, we recommend evenly spreading 5 kg of fertiliser on 150-200 m² and 10 kg of fertiliser on 300-400 m². After using this fertiliser, mixing or watering in is necessary (with a min. of 10 l/m²).

ACTIVE INGREDIENT CONTENT

N	P ₂ O ₅	K ₂ O	CaO	MgO	SO ₃	Fe
10%	5%	10%	8.5%	6%	25.4%	1%



cereals



oily seed crops



row crops



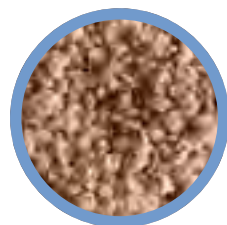
grapes/fruit



vegetables



ornamental plants



GENEZIS HOBBY GARDEN PRODUCTS

GENEZIS HORTICULTURAL NITROGEN FERTILISER (SMALL PACK)

GENEZIS PÉTIMÉSZSÓ

General features: Genezis Pétimészsó is a granulated nitrogen fertiliser with a high liming material content. It can be applied as both basal and top dressing to supply nitrogen, calcium and magnesium. Grain size between 2.5 and 6.3 mm. Its grain solidity is high, its grain size is uniform; its grains are almost completely spherical.

Advantages of the product: Pétimészsó is a type of fertiliser with an outstanding amount of nitrogen with liming material, which contains 159 kgs of nitrogen, 116 kgs of MgO and 576 kgs of liming material (CaO) per tonne.

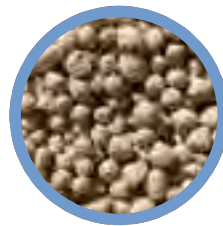
The high amount of calcium it contains increases pH value! The liming material improves soil structure and pH levels (reduces and eliminates soil acidity and adds magnesium). It increases soil productivity and nutrient deposition/utilisation and the stress resistance of the plants (higher resistance to drought and diseases). Therefore, it is highly recommended for acidic soils and crops requiring calcium and magnesium in high amounts. By applying this fertiliser, the amount of phosphorus that can be absorbed from the soil can be increased by up to 20%!

There is no limit on selling it in farm shops and to urban residents as its nitrogen content remains below 16%.

Recommended use: Recommended for all arable and horticultural crops and vineyards. For basal dressing: 200-600 kgs/ha (20-60 dkg/10 m²) applied and worked in prior to sowing. As a starter fertiliser: 200-350 kgs/ha 20-35 dkg/10 m² applied simultaneously with sowing. For top dressing: 300-900 kgs/ha (30-90 dkg/10 m²) applied in 2-3 portions.

Recommended crop: All arable and horticultural crops (primarily plants with a high magnesium and calcium demand: potato, sugar beet, perennial legumes, maize, rapeseed, cereals such as oats), ornamental plants, lawn-turf, grassland.

ACTIVE INGREDIENT CONTENT	
Nitrogen (N):	15.9%
of which ammonium (NH ₄):	7.95%
nitrate (NO ₃):	7.95%
Nitrate-nitrogen:	2%
CaO:	16.1%
MgO:	11.6%



cereals



oily seed crops



row crops



grapes/fruit



vegetables



ornamental plants



GENEZIS HOBBY GARDEN PRODUCTS

GENEZIS HORTICULTURAL NITROGEN FERTILISER (SMALL PACK)

GENEZIS SPECIAL GARDEN VEGETABLE NPK FERTILISER

Packaging: Plastic bag 10 kg.

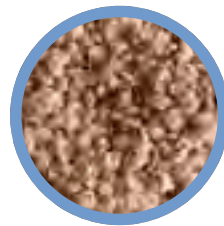
General features: With its balanced composition and micronutrient content, the Genezis Special Garden Vegetable NPK fertiliser provides an excellent, harmonious supply of nutrients to plants throughout the vegetation period. It increases yield volume and the period of durability and improves quality and nutritional values. The special composition of micro-, meso- and macronutrients stimulates the growth and development of the plant. This preparation can be used from early spring until the end of summer, both for nutrient refill before planting and for nutrient replenishment during the growing season. Its main active ingredients are nitrogen, potassium, phosphorus, and it also contains iron, calcium and magnesium, which nourish the plants, make them more resistant to environmental influences and make them grow stronger, bloom and provide a more plentiful crop. Our plants can take up nutrients as they need, without excessive nitrate storage in the plant.

Due to its calcium and magnesium content, it increases cell solidity, the occurrence of physiological disturbances become less frequent, and thus the produce stores better.

Recommended use: Its main active ingredients feed the plants and make them more resilient against environmental effects, make growth and flowering more vigorous and give a more plentiful yield. As the most intensive growth period is in the spring, the best effect can be achieved when we use this preparation 2 or 3 times in this period and during the growing season. The preparation is applied to the roots of the plants, evenly distributed.

To achieve the optimal effect, we recommend evenly spreading 5 kg of fertiliser on 150-200 m² and 10 kg of fertiliser on 300-400 m². After using this fertiliser, mixing or watering in is necessary (with a min. of 10 l/m²).

ACTIVE INGREDIENT CONTENT						
N	P ₂ O ₅	K ₂ O	CaO	MgO	SO ₃	Fe
10.0%	5.0%	10.0%	8.5%	6%	25.4%	1.0%



cereals



oily seed crops



row crops



grapes/fruit



vegetables



ornamental plants

GENEZIS HOBBY GARDEN PRODUCTS

GENEZIS HORTICULTURAL NPK PRODUCTS (SMALL PACK)

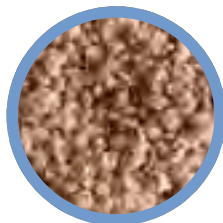
GENEZIS SPECIAL LAWN NPK FERTILISER







Packaging: Plastic bag 5 kg.

General features: Due to its balanced composition and micronutrient content, Genezis Special NPK Lawn Fertiliser ensures an excellent, healthy green lawn throughout the growing season. The appropriate micro-, meso- and macronutrients stimulate the growth and development of the plant. It provides a healthy and fresh-looking green surface.

Advantages of the product: Its main active ingredients are nitrogen, potassium, phosphorus, in addition to iron, calcium and magnesium, which nourish the grass, make it more resistant to environmental influences and render its green colour more vivid. Its nitrogen content makes the grass grow and regenerate quicker.

Recommended use: Its main active ingredients nourish plants, make them more resistant to environmental influences, and enhance growth. It is excellent for ensuring a healthy greencover in lawns, grasses, football pitches and golf courses. As the most intensive growth period of grass is in the spring, the best effect can be achieved when using this preparation 2 or 3 times in this period and during the growing season. The preparation should be scattered evenly on the lawn after dry and dead plants have been removed. This preparation can be used from early spring until the end of summer, both for nutrient refill before planting and for nutrient replenishment during the growing season. To achieve the optimal effect, we recommend the even application of 5 kg of fertiliser on 150-200 m². After application, it is advisable to water the lawn surface (with a min. water amount of 10 l/m²).



ACTIVE INGREDIENT CONTENT						
N	P ₂ O ₅	K ₂ O	CaO	MgO	SO ₃	Fe
10.0%	5.0%	10.0%	8.5%	6%	25.4%	1.0%
						
cereals	oil seed crops	row crops	grapes/fruit	vegetables	ornamental plants	

GENEZIS HOBBY GARDEN PRODUCTS

GENEZIS HORTICULTURAL NPK PRODUCTS (SMALL PACK)

PETI LAWN FERTILISER FOR MOSSY LAWNS

Having problems with the appearance of moss in your yard or on your lawn?

Packaging: Plastic bag 3 kg.

General features: The preparation contains ferrous sulphate, which kills moss species quickly and effectively. We also recommend ventilating the lawn.

Recommended use: Can be used in the amount of 150-250 g/m² (20 m²/bag) for nutrient replenishment of mossy lawns and greens.

As the most intensive growth period of grass is in the spring, the best effect can be achieved when we use this preparation 2 or 3 times in this period and during the growing season.

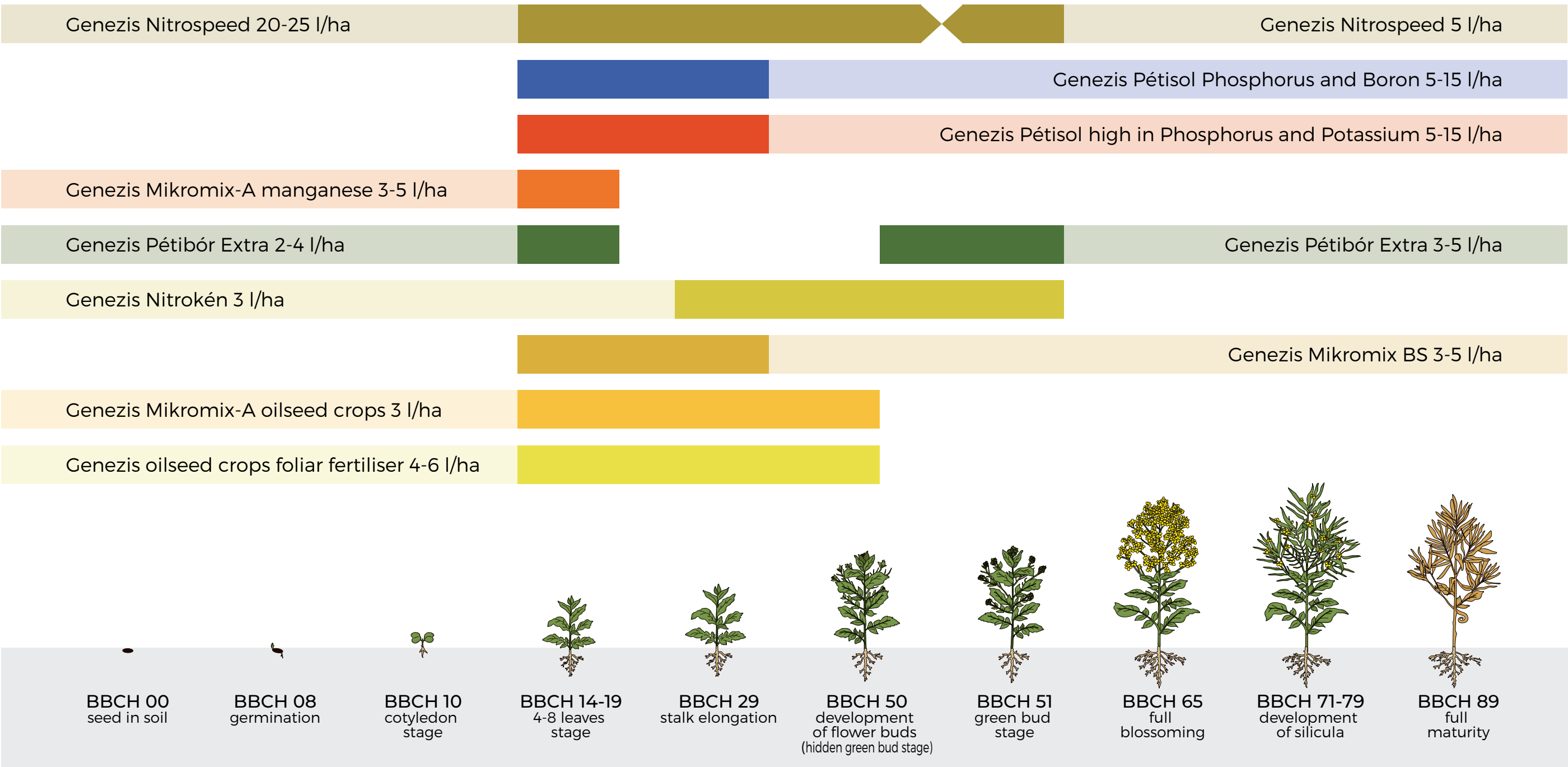
The treatment should be carried out post-emergence, in the intensive growth state of the moss species, after mowing the lawn.

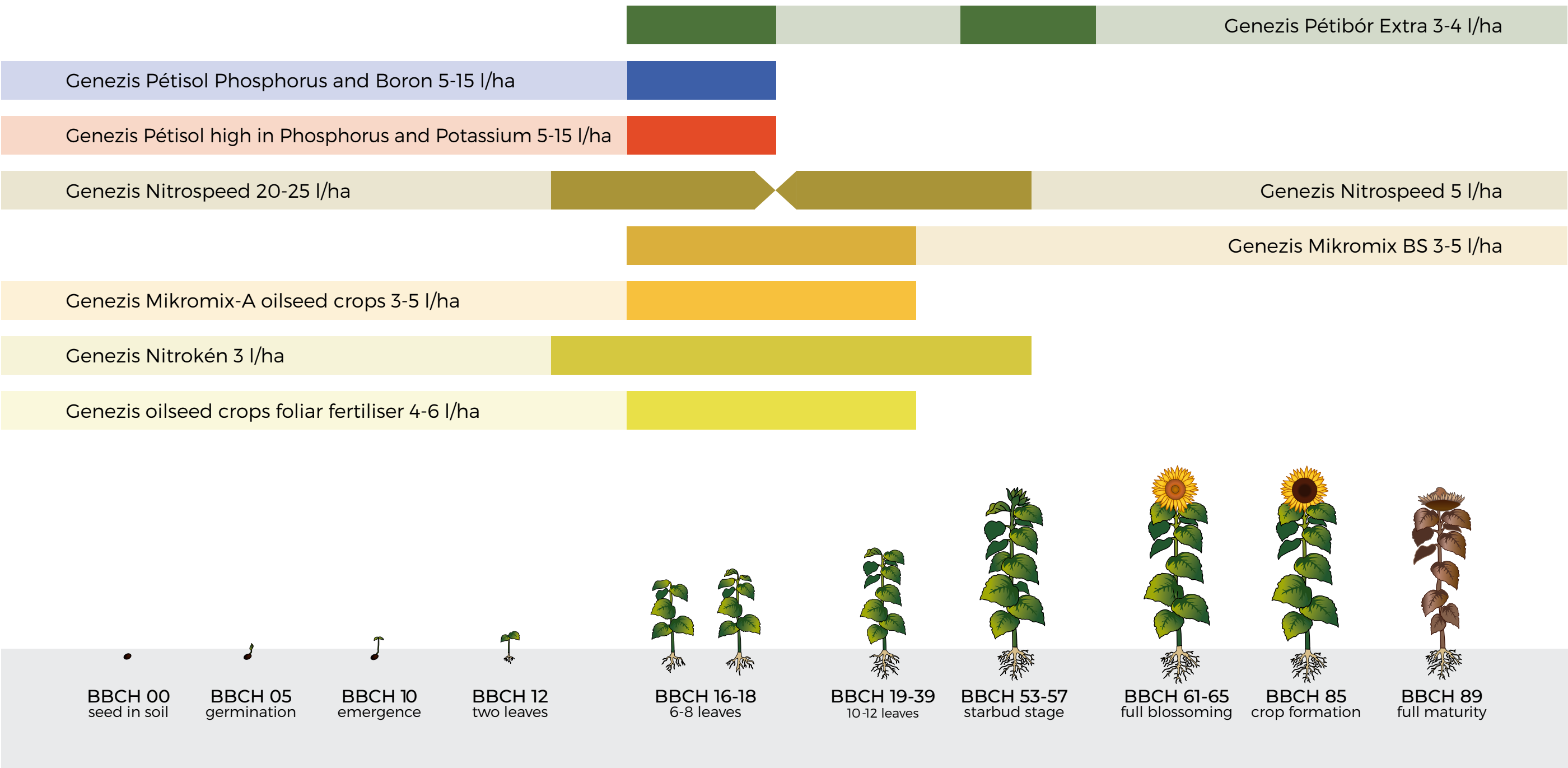
The preparation should be scattered evenly on the lawn after dry and dead plants have been removed. Thorough watering of the treated surface is recommended 2-3 days after application (with a min. water amount of 10 l/m²). The effect of the preparation is visible immediately after watering (10 mm), in the reddish-brown and black discolouration of the moss. The soil conditioning agent takes effect very quickly. Experiments have shown that the moss-killing effect of the preparation is very effective.

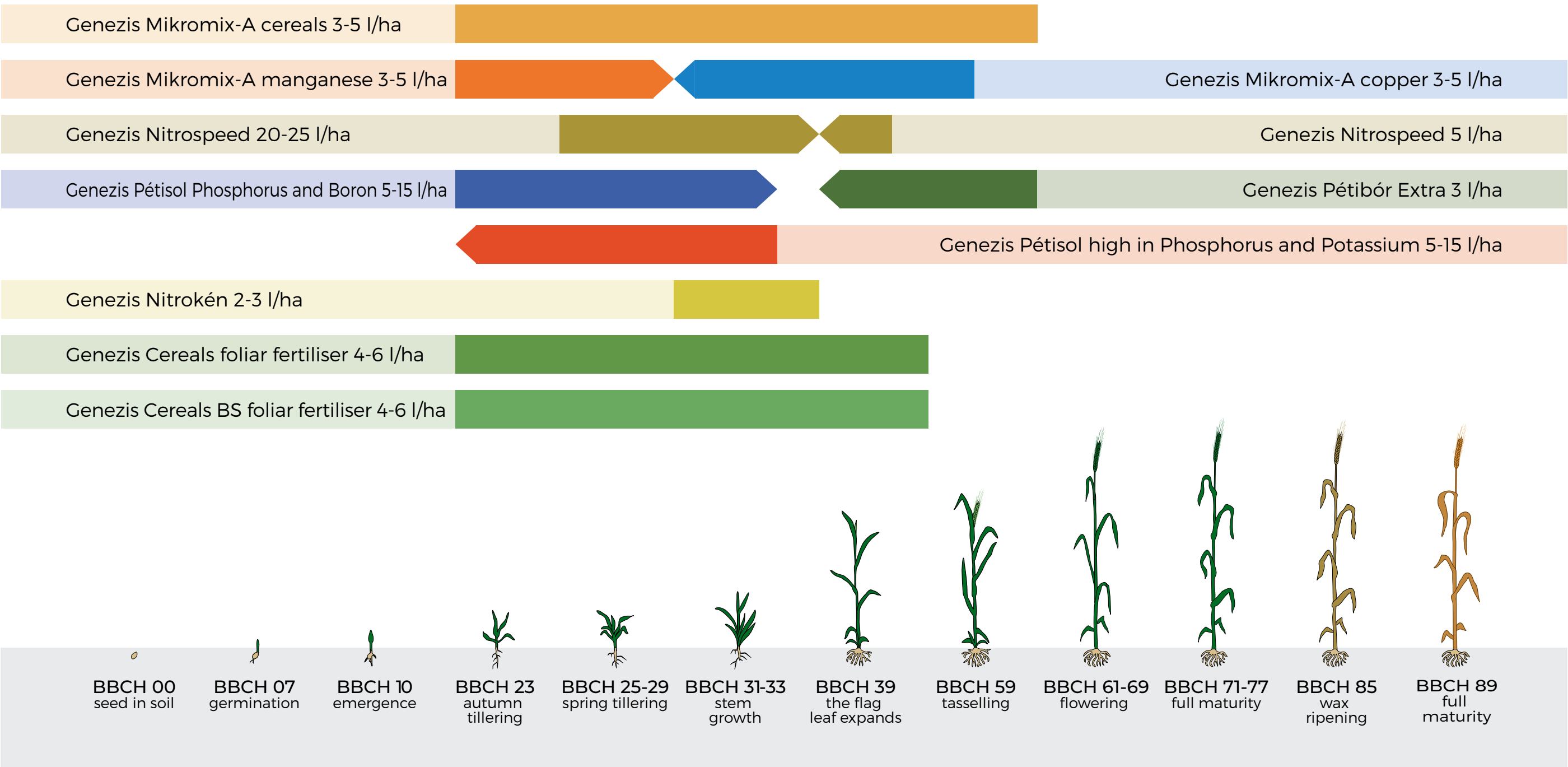


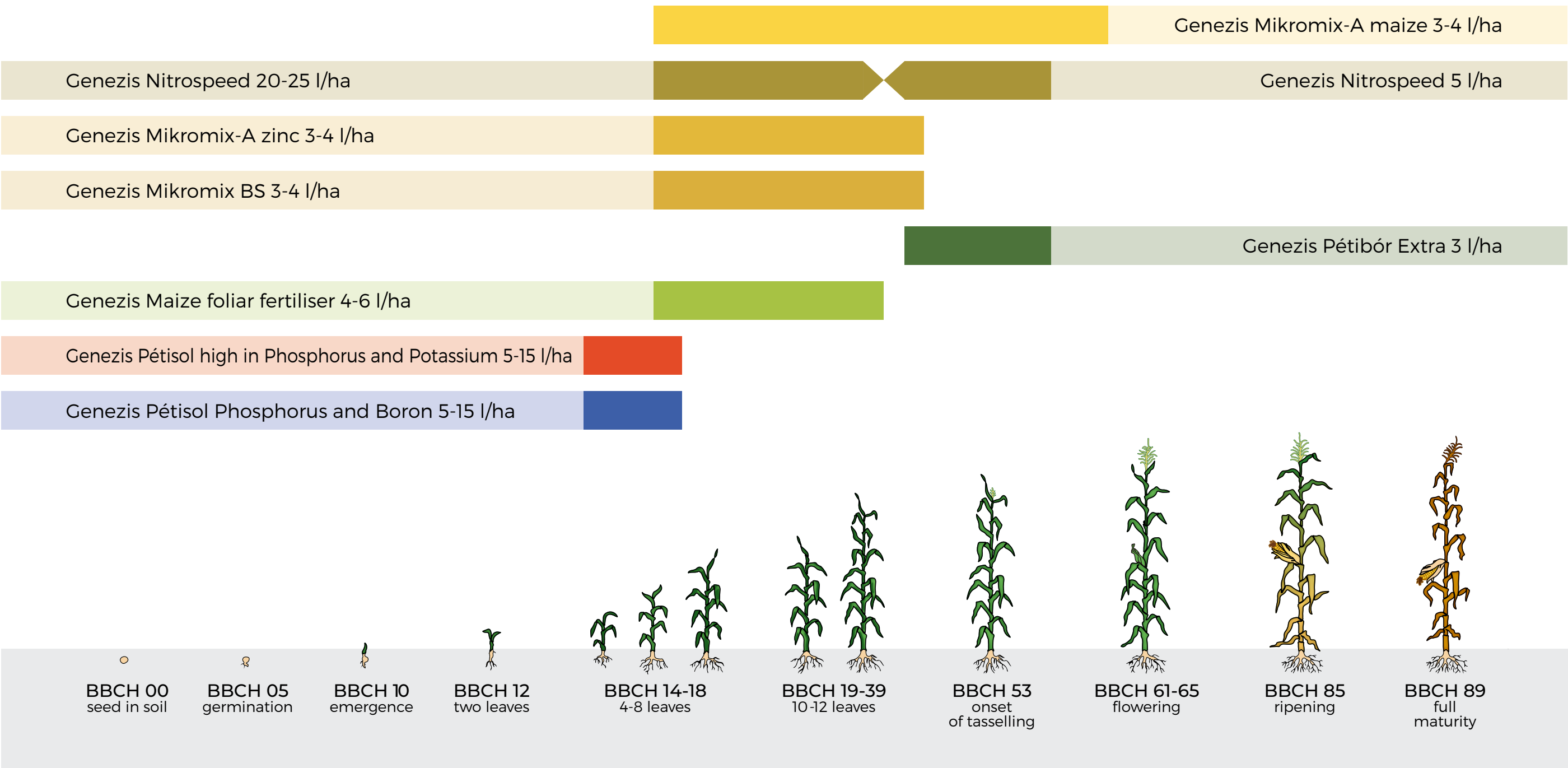
ACTIVE INGREDIENT CONTENT			
N	Cu	SO ₃	Fe
7.0%	0.25%	8.5%	1.0%











The following storage conditions generally apply to all Genezis fertilisers.



Never store ammonium nitrate fertiliser (AN 34%) in bulk!
Do not store fertiliser in bulk outdoors!

Recommendations for indoor storage:

The storage facility should be a closed and secure building made of non-combustible material (concrete, brick); weatherproof, with an indoor temperature between 5-30 °C; dry, free of dust and dirt, its substrate should be a dry and smooth surface; the surfaces in contact with the fertiliser should be well insulated; the building should be well ventilated.

The fertiliser storage area must be protected from unauthorised access!
Never allow smoking or the use of open flame within the fertiliser storage area!



Recommendations for outdoor:



Avoid storing fertiliser outdoors.
Protect the fertiliser from direct sunlight, hot objects and surfaces, do not allow the temperature within the storage area to rise above 32 °C.
The following storage conditions apply to all Genezis fertilisers. To prevent the infiltration of moisture and other contaminants, the fertiliser bags should be covered with a properly secured, clear, waterproof cover.

STACKING OF PACKAGED GOODS:

Pallet product:



The stack should be no more than 2 rows high.
The middle foot of the pallets in the top row should not be placed between two pallets of the row beneath.
It should always be fully supported by the row below it.

Big-Bag products:



The bags may be stacked in a maximum of 3 rows.
Big-Bags placed on pallets should not be stacked higher than 2 rows.
For the lifting of Big-Bags, use only the tools designed for that purpose.
Never move the bags with a forklift or other lifting devices.

Environmental regulations:

Handling products with damaged packaging:
Clean up spilled fertiliser as soon as possible and place it in a clean, labelled, closed bag/container. Store separately on a separate pallet.

Contaminated fertiliser must be disposed of in accordance with the regulations for hazardous waste.

Regulations regarding fertiliser products

According to Government Decree 219/2011. (X. 20.). Regulation (EC) No 2003/2003 of the European Parliament and of the Council (13 October 2003)* on Fertilisers

Decree No. 36/2006. (V.18.) of the Ministry of Agriculture and Rural Development concerning the authorisation, storage, marketing and utilisation of yield increasing materials

Decree No. 37/2006. (V.18.) of the Ministry of Agriculture and Rural Development on the placing on the market and control of fertilisers marked "EC fertiliser".

*Regulation (EU) 2019/1009 (05/06/2019) comes into effect on 16th July 2022. The storage instructions should be easily accessible.

Government Decree 219/2011 (20 October) on Protection Against Major Accidents Related to Dangerous Substances

Decree of the Minister of Interior 54/2014 (5 December) BM on the National Fire Safety Code (NFSC) Act CEXXXV of 2012 on Wastes

Always keep the warehouse clean and tidy. Keep traffic routes (Section 193 of the NFSC) and the preparation area for fire fighters (Section 66 of the NFSC) clear and accessible. Fertilisers containing ammonium nitrate (AN 34% and Pétisó) may only be stored in places where the water pressure specified in Table 1 of Annex 8 to the NFSC for extinguishing fire is always available.

Safety regulations:

Ammonium nitrate-based fertilisers (AN 34% and Pétisó) belong to the 'moderately flammable' fire hazard class.
Urea is 'non-flammable'.
Only water should be used to extinguish a fire caused by the decomposition of fertilisers.
Foam, carbon dioxide or powder extinguishers are therefore ineffective during firefighting and can only be used to extinguish other fires in the vicinity of the fertiliser.

Disaster management rules –
For the storage of AN fertiliser (AN 34% N)
(According to Government Decree No. 219/2011. (X.20.))

- Storage quantity ≥ 1,250 tonnes (lower limit) – A safety analysis must be prepared.
- Storage quantity ≥ 5,000 tonnes (upper limit) – A safety report must be prepared. (If the ammonium-nitrate fertiliser held in the store fails to meet the quality requirements, then the limit quantities described above are 10 and 50 tonnes, respectively).
- Storage quantity ≥ 312.5 tonnes (operation below threshold) the activity is subject to a permit issued by the disaster management authorities in the same way as described above.*

*To obtain the disaster management permit, the plant identification datasheets required by the decree must be completed and sent to the disaster management authorities. Based on the submitted documents and an on-site inspection, the authorities will decide whether it requires that a Serious Disaster Recovery Plan (SDRP) be prepared and submitted. Following the submission of data or the inspection of the SDRP (if required), the authorities will decide on issuing the disaster management permit.

Click on the link below for more information:
<https://www.genezispartner.com/wp-content/uploads/2020/08/Storing-guide-ENG.pdf>



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GENEZIS PLANT PROTECTION PRODUCTS TO TACKLE THE PLANT PROTECTION ISSUES OF ALL MAJOR ARABLE CROPS!

The Genezis plant protection product range offers a competitive solution to the plant protection issues of arable crops:

- 81 concurrent import licenses for 60 types of preparations, 48 active concurrent import licenses for 48 types of preparations from surrounding countries
- Wide range of Genezis fungicides, insecticides, herbicides and soil fumigants
- Statutory concurrent import and distribution license issued by the National Food Chain Safety Office (NÉBIH)
- From Europe to Europe
- Same ingredients and formula as the reference product, original sealed package
- Mandatory re-labelling in Hungarian



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