

Nitrogen-phosphorus and complex fertilizers

Specifics

Fertilizers contain two (nitrogen and phosphorus) or three (nitrogen, phosphorus and potassium) basic macroelements, as well as essential mesoelements (sulphur, magnesium). Almost all of our complex fertilizers contain sulphur in varying amounts. Sulphur increases capacity of all crops: technical, cereal and legumes. Our complex fertilizers are easy to transport and use. A wide range of fertilizers suitable for various soil and climatic conditions.

NP 12-52

Monoammonium phosphate (MAP)

Best solid granular fertilizer to provide crops with phosphorus and nitrogen that are easy to uptake. These nutrients are vital for quick sprouting and vegetation. The temporary moderate acidification of the soil solution around the fertilizer granule brings the largest effect for nutrition systems on soils with the neutral and faintly alkaline reaction. Ammonia nitrogen contributes to better phosphorus intake by plants.

≥90%
ø 2–5 mm



Digestible
form P_2O_5
of total
phosphates,
not less

94.7 %

of digestible
phosphates,
not less

99.0 %



strength, MPa
min. **3**

pH
4.5–4.8

COMPOSITION

N	P ₂ O ₅	water solubility, % of total P ₂ O ₅	citrate solubility, % of total P ₂ O ₅	K ₂ O	S	Zn	B	MgO	CaO
12 %	52 %	90	95	—	2.0 %	—	—	0.4–0.6 %	—

APPLICATION

Period



Autumn



Spring

Method



Main



**During
sowing**



**High
croppage**



**High-quality
plant
products**



**Ensures good
root system
growth**

ADVANTAGES

Crops



All crops

Soils

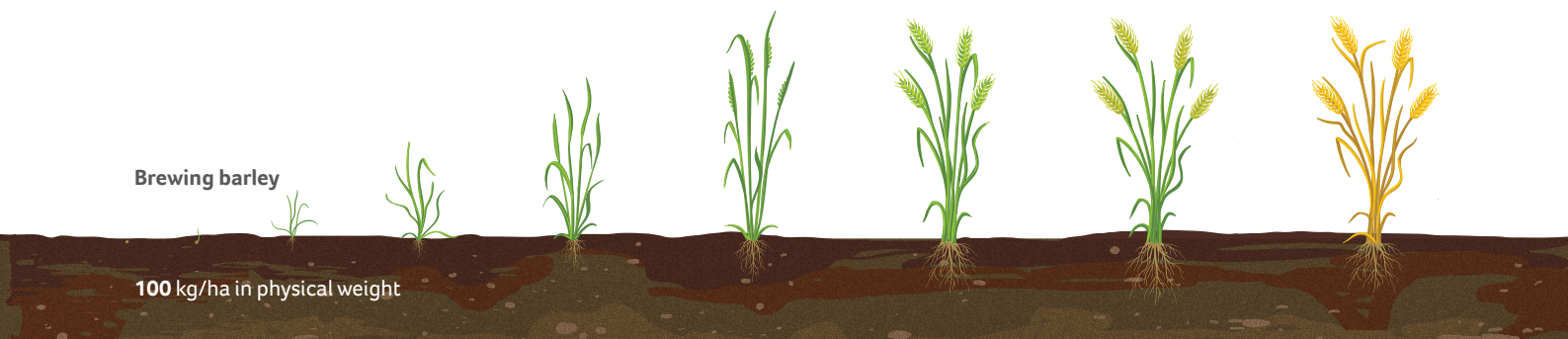


**Neutral and
alkaline soils**

APPLICATION

Brewing barley

100 kg/ha in physical weight



NP 18-46

Diammonium phosphate (DAP)

Most concentrated phosphate-based fertilizer. It is perfect for any agriculture crop to provide full phosphorus nutrition throughout crop growth and development, as well as a starter dose of nitrogen and low sulphur.

It can be applied in autumn for tilling and in spring during sowing, as well as for pre-sowing cultivation. Dissolving in soil, it provides temporary alkalization of pH of the soil solution around the fertilizer granule, thus stimulating better uptake of phosphorus from the fertilizers on acid soils. Fertilizer's sulphur also contributes to the better intake of nitrogen and phosphorus by plants.

Digestible form P_2O_5

of total phosphates, not less

94.7 %

of digestible phosphates, not less

99.7 %

≥95%
ø 2-5 mm



strength, MPa
min. **3**

pH
6.0-7.2

COMPOSITION

N	P ₂ O ₅	water solubility, % of total P ₂ O ₅	citrate solubility, % of total P ₂ O ₅	K ₂ O	S	Zn	B	MgO	CaO
18%	46%	90	95	—	2.5%	—	—	—	—

APPLICATION

Period



Autumn



Spring

Method



Main



**During planting
(of tubers)**



**Optimal fertilizer
for winter
cereals**



**Ensures
good root
system
growth**



**High
croppage**



**High-quality
plant
products**

ADVANTAGES

Crops



All crops

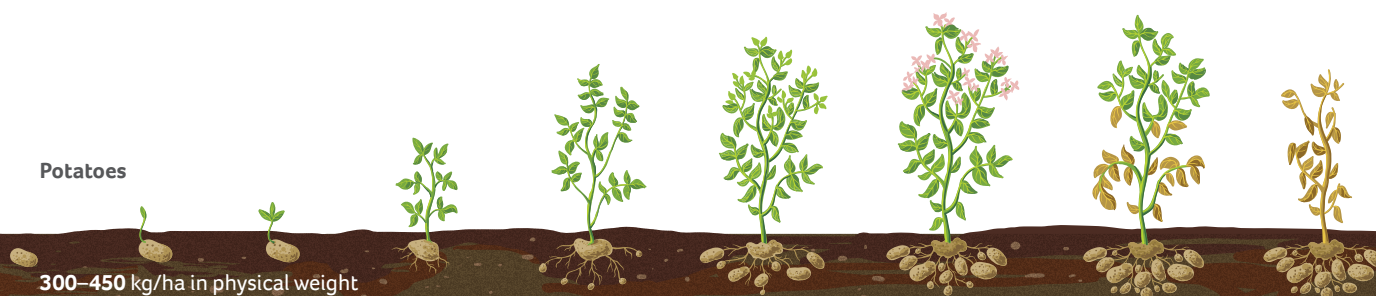
Soils



All soils

APPLICATION

Potatoes



300-450 kg/ha in physical weight

NP(S) 16-20(12)

A complex three-component fertilizer containing nitrogen, phosphorus and sulphur. It is particularly good for soils with high potassium and low labile sulphur content. High sulphur content makes this grade vital for oilseeds – rapeseed, sunflower, flax, because sulphur promotes oil accumulation in seeds. Optimized sulphur nutrition is also essential for wheat and soybeans because sulphur promotes protein accumulation in grains.

Digestible
form P_2O_5
of total
phosphates,
not less

94.7 %

of digestible
phosphates,
not less

99.7 %

≥97%
ø 1-6 mm



strength, MPa
min. **3**

pH
6.9-7.1

COMPOSITION

N	P_2O_5	water solubility, % of total P_2O_5	citrate solubility, % of total P_2O_5	K_2O	S	Zn	B	MgO	CaO
16 %	20 %	90	95	—	12 %	—	—	0.4-0.6 %	—

APPLICATION

Period	Method
Autumn Spring	Main During sowing



Ensures high
yields on soils
with low labile
sulphur



Increases
protein
in grains
and oil
in seeds



Starter spring
fertilizer
for chickpeas,
soybeans,
rape, sunflower
and flax



Mixes well
with other
fertilizers

ADVANTAGES

Crops	Soils
Soybeans Chickpea Rape seed Flax Grain Sunflower Maize	All soils

APPLICATION

Sunflower

200 kg/ha in physical weight



NP(S) 20-20(14)

A complex sulphur-containing fertilizer for high potassium soils. This grade is particularly useful for spring applications when crops require larger amounts of sulphur. Its application helps to ensure the active growth of plants, build immunity and strength. Quality of the final product is also improved, increasing the protein content in grains and the oil content in sunflower seeds and rapeseed. It is a perfect starter fertilizer for maize.

Digestible form P_2O_5

of total phosphates, not less

94.7 %

of digestible phosphates, not less

99.7 %

≥97%
ø 1-6 mm



strength, MPa
min. **3**

pH
6.0-7.2

COMPOSITION

N	P_2O_5	water solubility, % of total P_2O_5	citrate solubility, % of total P_2O_5	K_2O	S	Zn	B	MgO	CaO
20%	20%	90	95	—	14%	—	—	0.1-0.3%	—

APPLICATION

Period



Autumn



Spring

Method



Main



During sowing



Strengthens crop immunity to diseases



Ensures high quality of grains, seeds and beans



Ensures the best intake of nitrogen and phosphorus from fertilizers



Accelerates crop growth through boosting the activity of enzyme systems

ADVANTAGES

Crops



Grain



Sunflower



Rapeseed



Maize

Soils



All soils

Maize

150-200 kg/ha in physical weight

APPLICATION

NP(S) 14-40(7)

A complex three-component fertilizer containing nitrogen, phosphorus and sulphur. It is particularly good for soils with low labile phosphorus, high potassium and low labile sulphur. A wide nitrogen/phosphorus ratio enables the effective use of this fertilizer during sowing when placed near seeds.

≥95%
ø 2-5 mm



Digestible
form P_2O_5

of total
phosphates,
not less

94.7 %

of digestible
phosphates,
not less

99.7 %





strength, MPa
min. **3**

pH
4.6-4.9


COMPOSITION


N	P_2O_5	water solubility, % of total P_2O_5	citrate solubility, % of total P_2O_5	K_2O	S	Zn	B	MgO	CaO
14%	40%	90	95	—	7%	—	—	0.3-1.0 %	—

APPLICATION

Period
Autumn  Spring 

Method
Main  During sowing 


Applied on low
phosphorus
soils,
eliminates
sulphur
deficiency


Applied
for legumes
responding well
to sulphur when
a moderate
dose of nitrogen
is required.


Increases
protein in
grains and oil
in seeds


Improves plant
nutrition with
phosphorus
at low spring
temperatures

ADVANTAGES

Crops

All crops

Soils

All soils

APPLICATION

Chickpea

100 kg/ha in physical weight



NPK(S) 10-26-26(2)

A classic complex fertilizer used in traditional farming systems as the main fertilizer for both clean-cultivated crops with plowing in autumn and winter crops. Its use is especially advantageous in soil zones with a low content of labile phosphorus and potassium, where the responsiveness of cultivated crop to Diammophosca is higher than on fertile soils.

Digestible form P_2O_5

of total phosphates, not less

94.7 %

of digestible phosphates, not less

99.7 %



≥97%
Ø 1-6 mm



strength, MPa
min. **5**

pH
6.0-7.2

COMPOSITION

N	P_2O_5	water solubility, % of total P_2O_5	citrate solubility, % of total P_2O_5	K_2O	S	Zn	B	MgO	CaO
10 %	26 %	90	95	26 %	2 %	—	—	0.3-1.0 %	—

APPLICATION

Period



Autumn



Spring

Method



Main



During sowing



Fully covers crops' need for phosphorus and potassium, provides a starter dose of nitrogen



100% doses perfectly restores soil fertility for a future harvest



Most efficient on soils with high mineral nitrogen content



Applied for technical (potatoes, sugar beets, sunflowers) and cereal crops (winter wheat and barley)

ADVANTAGES

Crops



All crops

Soils



All soils

APPLICATION

Sugar beet

450 kg/ha in physical weight



NPK(S) 8-20-30(2)

This grade is high in potassium and phosphorus and low in nitrogen, which is good for main application since autumn. It is particularly valuable for crops that require large amounts of available phosphorus and potassium in the soil. It is highly efficient on soils with low potassium content, fine-textured soils with a leaching water regime.

It is a universal fertilizer, perfect for perennial grasses, sugar beets and potatoes, as well as cereals and legumes on high sulphur soils.

Digestible form P_2O_5

of total phosphates, not less

94.7 %

of digestible phosphates, not less

99.7 %

≥97%
ø 1-6 mm



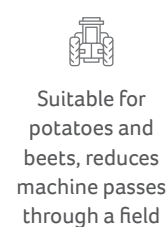
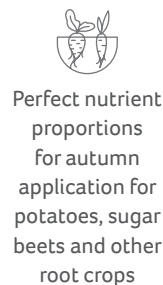
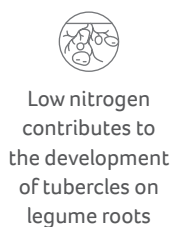
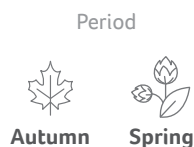
strength, MPa
min. **5**

pH
6.0-7.2

COMPOSITION

N	P ₂ O ₅	water solubility, % of total P ₂ O ₅	citrate solubility, % of total P ₂ O ₅	K ₂ O	S	Zn	B	MgO	CaO
8 %	20 %	90	95	30 %	2 %	—	—	0.3-1.0 %	—

APPLICATION



ADVANTAGES



All crops



All soils

APPLICATION

Perennial grass mixture

1st year of use

2nd and 3rd years of use



250-400 kg/ha in physical weight

NPK(S) 15-15-15(10)

A complex universal fertilizer for any soils and crops, most effective when applied for tilled and technical crops – before pre-sowing cultivation or during sowing. It is also a perfect starter fertilizer for spring cereals. The sulphur content ensures high intake of nitrogen and phosphorus by plants, and potassium facilitates faster transport of synthesis products (carbohydrates) to root vegetables and seeds.

Digestible form P_2O_5
of total phosphates,
not less

94.7 %

of digestible phosphates,
not less

99.7 %



≥97%
Ø 1–6 mm

strength, MPa
min. **5**

pH
6.0–7.2

COMPOSITION

N	P_2O_5	water solubility, % of total P_2O_5	citrate solubility, % of total P_2O_5	K_2O	S	Zn	B	MgO	CaO
15 %	15 %	90	95	15 %	10 %	—	—	0.3–1.0 %	—

APPLICATION

Period



Autumn



Spring

Method



Main



During sowing



Consistent results
irrespective
of soil or crop
characteristics



High sulphur content
increases the
efficiency of nitrogen
and phosphorus use
by plants



Contributes to improving
the quality characteristics
of the crop: increasing
the protein content
in grain, oil in seeds
and the quality of tubers
and root crops

ADVANTAGES

Crops



All crops

Soils

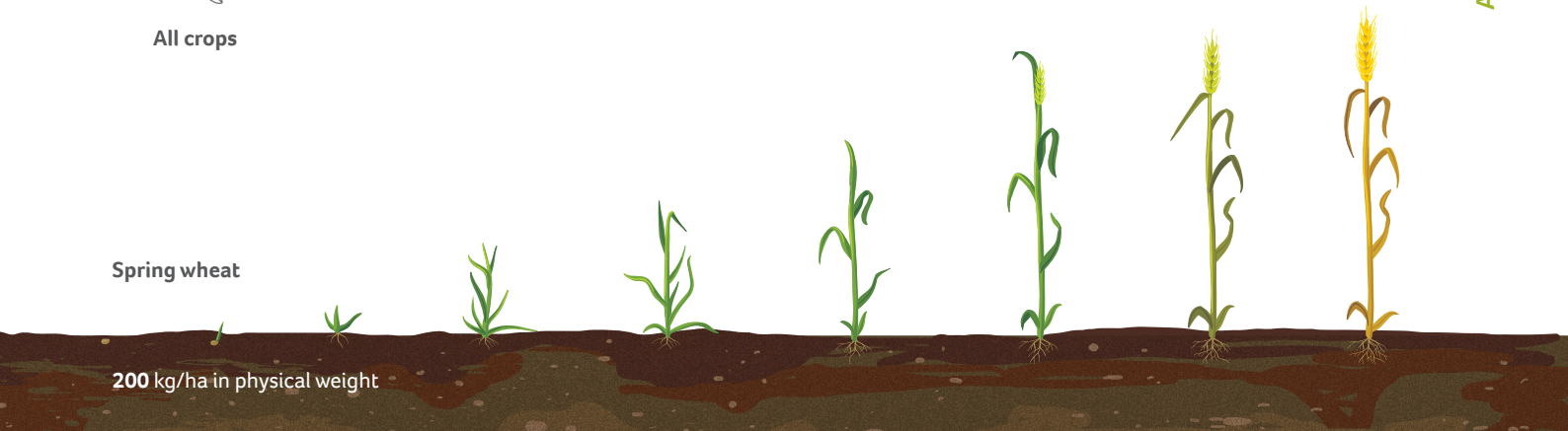


All soils

APPLICATION

Spring wheat

200 kg/ha in physical weight



NPK(S) 13-19-19(6)

Most concentrated complex fertilizer for both basic autumn application on the soil after winter harvesting, and spring application as a pre-sowing and starter fertilizer. It provides technical, cereal and tilled crops with all the phosphorus, potassium and sulphur required. Right proportions of nutrients and water-soluble form enable plants to use the nutrients to maximum effect. It requires no additional nitrogen nutrition when applied for sunflower.

Digestible
form P_2O_5
of total
phosphates,
not less

94.7 %

of digestible
phosphates,
not less

99.7 %



≥97%
ø 1-6 mm

strength, MPa
min. **5**

pH
6.0-7.2

COMPOSITION

N	P_2O_5	water solubility, % of total P_2O_5	citrate solubility, % of total P_2O_5	K_2O	S	Zn	B	MgO	CaO
13 %	19 %	90	95	19 %	6 %	—	—	0.3-1.0 %	—

APPLICATION

Period	Method
 Autumn	 Spring
	 During sowing

Sulphur in a sulphate form ensures the best intake of nitrogen and phosphorus

Improves quality indicators of grain and root and tubers

Facilitates maximum yields in case of local application

A perfect starter fertilizer for sunflower and potatoes

ADVANTAGES

APPLICATION

Crops

All crops

Soils

All soils

Rice

150 kg/ha in physical weight



NPK 12-32-16

Complex fertilizer containing nitrogen, phosphorus, potassium and, in a small amount, sulfur. It can be used on different types of soils, especially soils with low labile phosphorus and high labile potassium.

It is recommended for all crops, especially containing more phosphorus than potassium in the yield (spiked cereals, maize, legumes).

Digestible form P_2O_5
of total phosphates,
not less

94.7 %

of digestible phosphates,
not less

99.7 %



≥97%
Ø 1–6 mm

strength, MPa
min. **5**

pH
6.0–7.2

COMPOSITION

N	P ₂ O ₅	water solubility, % of total P ₂ O ₅	citrate solubility, % of total P ₂ O ₅	K ₂ O	S	Zn	B	MgO	CaO
12 %	32 %	90	95	16 %	1 %	—	—	0.3–1.0 %	—

APPLICATION

Period



Autumn



Spring

Method



Main



During sowing



Applied on soils with low labile phosphorus



Improves plant nutrition with phosphorus at low spring temperatures



Applied for legumes (soybeans, peas, alfalfa) when a moderate dose of nitrogen is required



Starter fertilizer in feed systems for maize, sugar beets

ADVANTAGES

Crops



All crops

Soils



All soils

APPLICATION

Peas

150 kg/ha in physical weight



®

Nitrogen-phosphorus and complex
fertilizers with microelements

Specifics

In addition to the basic macroelements (nitrogen, phosphorus and potassium) and mesoelements (sulphur, magnesium), fertilizers of this category also contain calcium and microelements (boron and zinc). Microelements are the most essential tool to control the rate of physiological and biochemical processes in plants. We recommend relying on the crop's need for each microelement, as well as on the results of agrochemical soil research during the selection of the fertilizer grade in order to boost both quantity and quality of crops.

NPK(S) 8-20-30(2)+0.3B*

This grade is highly effective on soils with low potassium, light in terms of their aggregate-size distribution, on soils with a percolative regime and on calcareous soils with low presence of labile forms of boron. Both main and starter applications are recommended.

*Sales of this product are only possible upon completion of registration. Information about this grade is intended solely to inform the user about the future expansion of the product range.

Digestible form P_2O_5

of total phosphates, not less

94.7 %

of digestible phosphates, not less

99.7 %



≥97%
ø 1-6 mm



strength, MPa
min. 5

pH
6.0-7.2

COMPOSITION

N	P ₂ O ₅	water solubility, %		citrate solubility, %	K ₂ O	S	Zn	B	MgO	CaO
8%	20%	90	95		30%	2%	—	0.3%	0.3-1.0%	—

APPLICATION

Period

Method



Spring



Autumn



Main



Before sowing



Low nitrogen content contributes to development of nodules on the roots of legumes



Ratio of the main elements in combination with boron is ideal for autumn application for root crops, sunflower, and potatoes



Boron in a single granule with NPK allows full root nutrition with the microelement



Highly effective when used as the main fertilizer before sowing perennial grasses with legumes element

ADVANTAGES

Crops

Soils



Tomato



Soybeans



Sunflower



All soils



Potato



Sugar beet



Mustard

Sugar beet

400-450 kg/ha in physical weight



NPK(S) 8-20-30(2)+1Zn*

Complex fertilizer recommended for soils with insufficient exchangeable potassium, highly-humous and bleached soils. Suitable for main and pre-sowing application.

* Sales of this product are only possible upon completion of registration. Information about this grade is intended solely to inform the user about the future expansion of the product range.

Digestible form P_2O_5

of total phosphates, not less

94.7 %

of digestible phosphates, not less

99.7 %



≥97%
ø 1-6 mm

strength, MPa
min. 5

pH
6.0-7.2

COMPOSITION

N	P ₂ O ₅	water solubility, %	citrate solubility, %	K ₂ O	S	Zn	B	MgO	CaO
8%	20%	90	95	30%	2%	1%	—	0.3-1.0%	—

APPLICATION

Period



Method



Low nitrogen content contributes to development of nodules on the roots of legumes



Ratio of the main elements in combination with zinc is ideal for autumn application for maize and grain



Zinc in a single granule with NPK increases disease resistance, as well as drought and frost resistance of winter cereals



Highly efficient if applied as the main fertilizer used before sowing perennial grasses

ADVANTAGES

Crops



Soils



All soils

Perennial grass mixture



150-200 kg/ha in physical weight

NPK(S) 10-26-26(2)+0.3B*

Efficient complex fertilizer for main application for soils with low presence of labile forms of microelements. Especially efficient in irrigated agriculture with a percolative regime.

* Sales of this product are only possible upon completion of registration. Information about this grade is intended solely to inform the user about the future expansion of the product range.

Digestible form P_2O_5

of total phosphates, not less

94.7 %

of digestible phosphates, not less

99.7 %

≥97%
Ø 1–6 mm



strength, MPa
min. **5**

pH
6.0–7.2

COMPOSITION

N	P ₂ O ₅	water solubility, %	citrate solubility, %	K ₂ O	S	Zn	B	MgO	CaO
10 %	26 %	90	95	26 %	2 %	—	0.3 %	0.3–1.0 %	—

APPLICATION

Period



Autumn

Method



Main



Before sowing



Covers the need of crops for phosphorus and potassium and provides plants with a starting dose of nitrogen



Allows to eliminate the limiting factor for nutrients



Highly efficient for autumn application for crops that have a significant need for boron



Well suited for soils with a low content of labile phosphorus and potassium

ADVANTAGES

Crops



Sugar Beet



Spring rape seed



Potato

Soils



All soils



Soybeans



Sunflower



Maize

Sugar beat

400–450 kg/ha in physical weight



NPK(S) 10-26-26(2)+1Zn*

Complex multicomponent fertilizer for main and sowing application on soils with low phosphorus and potassium content. Highly efficient on soils with low zinc content, on calcareous soils with neutral and weakly alkaline reaction, as well as when using high doses of phosphorus fertilizers.

* Sales of this product are only possible upon completion of registration. Information about this grade is intended solely to inform the user about the future expansion of the product range.

≥97%
ø 1-6 mm



Digestible
form P_2O_5
of total
phosphates,
not less

94.7 %

of digestible
phosphates,
not less

99.7 %








strength, MPa
min. **5**

pH
6.0-7.2

COMPOSITION

N	P ₂ O ₅	water solubility, %	citrate solubility, %	K ₂ O	S	Zn	B	MgO	CaO
10 %	26 %	90	95	26 %	2 %	1 %	—	0.3-1.0 %	—

APPLICATION

Period		Method		
				
Spring	Autumn	Main	Before sowing	During sowing








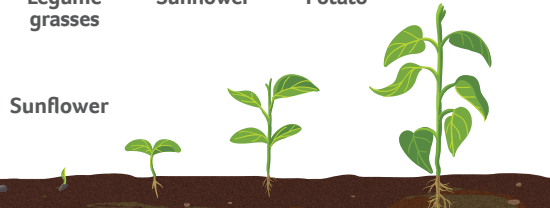
Compensates
for the lack of labile
phosphorus
and potassium
and replenishes
Zn in soil

Provides plants
with a starter
nitrogen dose

Replenishes
soil fertility
when applying
100% dose

Highly efficient
as the main fertilizer
before sowing grain
crops

ADVANTAGES

Crops			Soils
			
Beet	Flax	Maize	All soils
			
Legume grasses	Sunflower	Potato	
			
150-200 kg/ha in physical weight			

150-200 kg/ha in physical weight*

NPK(S) 15-15-15(10)+0.3B

All-purpose complex fertilizer optimal for use as a starter fertilizer for most crops on all types of soils. High sulfur content has a positive effect on metabolism of plants and on their ability to use macroelements from soil much more efficiently. Boron promotes full-fledged pollination of plants, improves growth and maturation of seeds and fruits.

Digestible form P_2O_5

of total phosphates,
not less

94.7 %

of digestible phosphates,
not less

99.7 %



≥97%
ø 1-6 mm

strength, MPa
min. **5**

pH
6.0-7.2

COMPOSITION

N	P ₂ O ₅	water solubility, %	citrate solubility, %	K ₂ O	S	Zn	B	MgO	CaO
15%	15%	90	95	15%	10%	—	0.3%	0.3-1.0%	—

APPLICATION

Period



Spring



Autumn

Method



Main



Before sowing



During sowing



High sulfur content increases resistance to adverse environmental factors while increasing the quality and yield of agricultural crops



Balanced ratio of main elements gives an excellent impetus to plant development



Ratio of main nutrition elements in combination with boron are ideal for starter application for oilseeds and potato



Boron in a single granule with NPK provides comprehensive root nutrition with this microelement

ADVANTAGES

Crops



Beet



Flax



Sunflower



Rape seed



Maize

Peas

Soils



All soils

150-200 kg/ha in physical weight

NPK(S) 15-15-15(10)+1Zn*

Complex fertilizer with an optimal ratio of macro-, meso- and microelements. Increased sulfur content provides a significant effect on low-humic, waterlogged and loamy sand soils, as well as when using high doses of nitrogen fertilizers. Zinc helps increase frost resistance and heat resistance of plants, participates in photosynthesis and respiration of plants. Most efficient with local application during sowing.

* Sales of this product are only possible upon completion of registration. Information about this grade is intended solely to inform the user about the future expansion of the product range.

Digestible form P_2O_5
of total phosphates,
not less

94.7 %

of digestible phosphates,
not less

99.7 %



≥97%
ø 1-6 mm

strength, MPa
min. **5**

pH
6.0-7.2

COMPOSITION

N	P ₂ O ₅	water solubility, %	citrate solubility, %	K ₂ O	S	Zn	B	MgO	CaO
15%	15%	90	95	15%	10%	1%	—	0.3-1.0%	—

APPLICATION

Period



Spring



Autumn

Method



Main



Before sowing



During sowing



High sulfur content increases utilization coefficient of nitrogen and phosphorus from both fertilizer and soil



Balanced amount of main nutrients in combination with zinc are ideal for pre- and post-sowing application



Zinc increases disease, as well as drought and frost resistance of winter cereals



Highly efficient when used as a sowing fertilizer for accelerated seed germination and plant development

ADVANTAGES

Crops



Grain



Sunflower



Flax



Maize



Potato



Forage crops

Soils



All soils

Flax

200-250 kg/ha in physical weight

NP(S) 14-40(7)+1Zn

Complex fertilizer for potassium-rich soils, sod-podzolic, heavy loamy and gumbo soils. It increases plant immunity and resistance to adverse environmental factors.

Digestible form P_2O_5

of total phosphates, not less

94.7 %

of digestible phosphates, not less

99.7 %



≥97%
ø 1-6 mm

strength, MPa
min. **3**

pH
4.6-4.9

COMPOSITION

N	P ₂ O ₅	water solubility, %	citrate solubility, %	K ₂ O	S	Zn	B	MgO	CaO
14%	40%	90	95	—	7%	1%	—	0.3-1.0%	—

APPLICATION

Period

Method



Autumn



Spring



Main



During sowing



Improves plant nutrition with phosphorus at low spring temperatures



Promotes development of high-quality grain, seeds, and beans



Ratio of nitrogen and phosphorus in combination with zinc is ideal for autumn application for root crops and maize



Sulfur and zinc in a single granule together with other main nutrition elements help to achieve high quality of grains

ADVANTAGES

Crops

Soils



Grain



Sugar beet



Maize



All soils



Peas



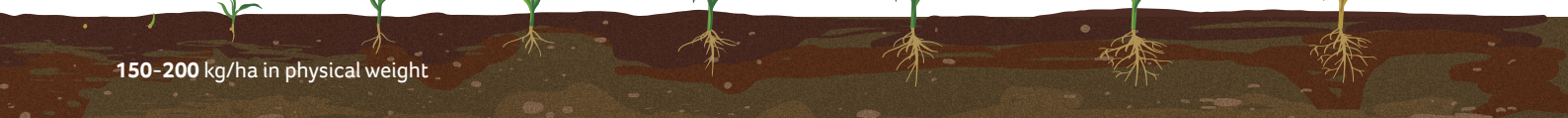
Feed crops



Soybeans

Maize for grain

150-200 kg/ha in physical weight



NP(S) 20-20(14)+0.4Zn

A complex fertilizer for maize and cereals containing macro-, meso- and microelements in one granule. Containing zinc, the fertilizer is perfect for cultivating technical crops requiring intensive growth and strong immunity. It prevents temporary stress of plants during the transition from grain to root nutrition.

Digestible
form P_2O_5

of total
phosphates,
not less

94.7 %

of digestible
phosphates,
not less

99.7 %



≥97%
ø 1-6 mm

strength, MPa
min. **5**

pH
6.0-7.2

COMPOSITION

N	P_2O_5	water solubility, % of total P_2O_5	citrate solubility, % of total P_2O_5	K_2O	S	Zn	B	MgO	CaO
20 %	20 %	90	95	—	14 %	0.4 %	—	0.2 %	—

APPLICATION

Period



Autumn



Spring

Method



Main



**During
sowing**



Accelerates
metabolism
and guarantees
timely ripening



Ensures high
quality of grains
and seeds



Energizes plants
for intensive
growth



Strengthens
crop resistance
to diseases

ADVANTAGES

Crops



Maize



Sunflower

Soils



All soils



**Spring
rape seed**



Grain

Maize

150 kg/ha in physical weight

