



**GENEZIS PRODUCT
LINE WITH HIGH
SULPHUR AND
REDUCED CHLORIDE
CONTENT**

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The development of our high-sulphur content fertilizer product line was inspired by the fact that sulphur is an essential nutrient for living organisms, found in plants in the fourth largest quantity after nitrogen, phosphorus and potassium.

It is a component of sulphur-containing amino acids, peptides, proteins, enzymes and vitamins (B1, Biotin, Thiamine). As it is indispensable in the biosynthesis of fatty acids, in the case of the cultivation of oilseed crops (rapeseed, sunflower, oil pumpkin), today it is absolutely necessary to give it attention. It increases green mass and chlorophyll to an appropriate extent and stimulates the vegetative growth of plants, while improving the digestibility and palatability of feed crops. It affects the frost tolerance of plants. In cereals properly applied sulphur fertilization improves the baking value, and increases the protein and gluten content.

Sulphur enhances the resistance of plants to pests and pathogens, thus improving crop safety. The sulphur content of all our products is 100% water-soluble though has a long-lasting effect, so less of it is washed out and the plant can absorb more; the sulphur feed of the plant stock will be more efficient than in the case of other types of products.

Sulphur deficiency is becoming increasingly common, for the following 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 one-sided nitrogen fertilization (N / S ratio)

Do not forget that when added in an appropriate ratio, nitrogen and sulphur strengthen each other's effects, helping each other to integrate into the plant. Appropriate sulphur fertilization can improve nitrogen utilisation. The lack of each of those elements causes yellowing of the plant stock, though in different ways. If you confuse early growth sulphur deficiency with nitrogen deficiency and attempt to remedy that by adding more nitrogen, you may exacerbate the problem of relative sulphur deficiency, which will result, in addition to the above, in an increase in the susceptibility of plants to diseases, as well as crop production and quality deterioration.



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

- **Nitrogen** and phosphorus are essential for all growth processes, protein synthesis and eye formation.
- **Potassium** is essential for sufficient crop safety, oil formation, carbohydrate structure and transportation. It improves resilience, cold tolerance, stem strength, water balance, crop quality and storability, and reduces water stress damage. It helps to form longer, corn cobs with whole length grain.

- **Calcium** contributes to cell wall reinforcement, root growth and stress tolerance.
- **Magnesium** is essential for the synthesis of chlorophyll, as it is a central element for the activation of enzymes, adequate stress tolerance, health condition, fuller grains (cereals), cobs better filled with grains and more advanced and richer root growth capable of absorbing more water and nutrients.

GENESIS NPK

5-18-18 + 8.8 S

GENEZIS NPK 5-18-18 + 8.8 S is a 'classic' balanced PK ratio NPK product that contains all the macro and meso elements in a water-soluble form.

It is recommended for those who wish replenish sulphur with PK basic fertilization and calcium or magnesium supplementation in one process.



GENEZIS K PREMIUM

GENEZIS K Premium is not a simple potassium fertilizer, as it contains calcium and magnesium in addition to its 9.6% sulphur content, in a perfectly water-soluble form.

It is recommended for those who wish to replenish sulphur and apply magnesium and calcium supplementation simultaneously with potassium replenishment.



GENESIS NK 10-8 + 21.4 S

GENEZIS NK 10-8 + 21.4 S is a high-quality and water-soluble fertilizer, as it contains 21.4% sulphur, plus calcium and magnesium, in a perfectly water-soluble form. It replaces the potassium and sulphur washed out of loose soil during the autumn-winter after the early top dressing of autumn sowings, thus preventing early spring yellowing.

It is recommended for those who wish to replenish sulphur and apply magnesium and calcium supplementation simultaneously with potassium replenishment.



NUTRIENT (%)	HIGH SULPHUR CONTENT GENEZIS PRODUCTS		
	GENEZIS NPK 5-18-18 + 8.8 S	GENEZIS K Premium	GENEZIS NK 10-8 + 21.4 S
N	5.0	-	10.0
P ₂ O ₅	18.0	-	-
K ₂ O	18.0	37.0	8.0
CaO	6.9	8.5	8.5
MgO	2.4	3.0	3.0
S	8.8	9.6	21.4
SO ₃	21.9	24.0	53.7
Total active ingredient	59.1	58.1	50.9
Water solubility	Excellent	Excellent	Excellent
Sensitivity	With reduced chloride content	With reduced chloride content	Chloride free

NUTRIENTS	It also contains three macro and three meso elements	It also contains three meso elements in addition to a macro-element	It also contains two macro and three meso elements
Recommended application	Autumn or spring PKS basic fertilization	Autumn or spring KS basic fertilization	It is primarily a sulphur fertilizer, though it also replenishes nitrogen and potassium
	- In sulphur-deficient areas and sulphur-intensive crops - Also contains calcium and magnesium - The potassium and sulphur content is released gradually and is difficult to wash out, which is more effective for plants, their solubility better suits the nutrient uptake dynamics of the plant than conventional formulations		
Crops	cereals, rape, maize, sunflower, soybean, oil pumpkin, sorghum, sweetcorn, horticultural crops *	cereals, rape, maize, sunflower, soybean, oil pumpkin, sorghum, sweetcorn, horticultural crops *	cereals, rape, corn, sunflower, soybean, oil pumpkin, sorghum, sweetcorn, horticultural crops
Dose	Depending on the nutrient demand of the plant species, the nutrient content and the ability of the soil to provide nutrients		
	200-600 kg/ha	100-500 kg/ha	100-400 kg/ha

* Autumn application is recommended in chloride-sensitive crops



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