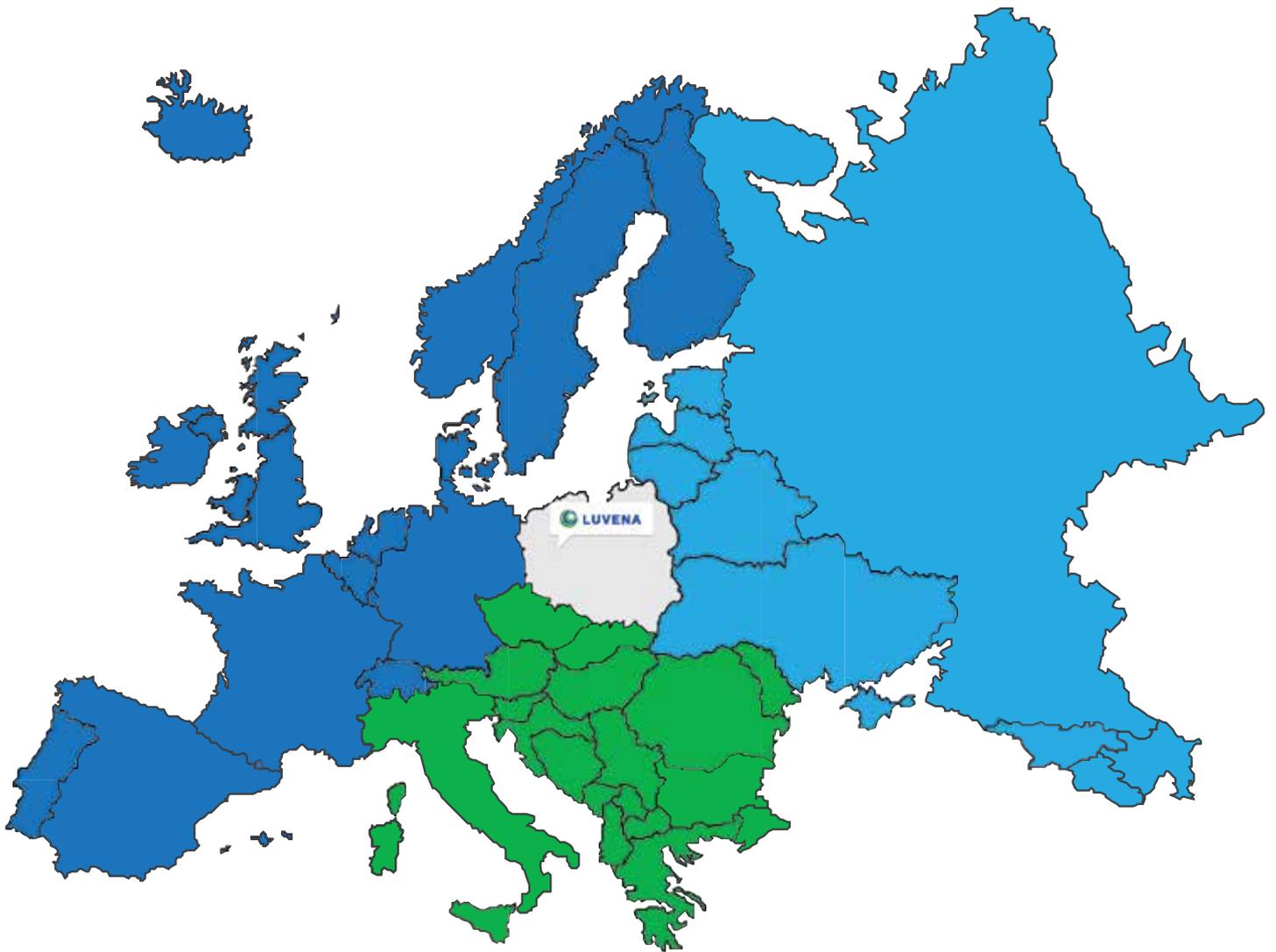


PRODUCT  
CATALOGUE



**LUVENA**  
NAWOZY Z LUBONIA





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# ABOUT THE COMPANY

## OVER 100 YEARS OF TRADITION AND EXPERIENCE

For over 100 years **Lubena S.A.** has been combining tradition and modernity.

The early days of our operation date back to 1914 and are related to the name of Dr. Roman May – a Wielkopolska industrialist and teacher who, going out to the demands of the then agriculture, launched an artificial fertilizers factory in Starołęka near Poznań.

After Dr. Roman May's death, the factory was taken over by his wife, Helena and some years later she was joined by another renowned Wielkopolska inhabitant – Cyryl Ratajski. They joined their forces and developed the plant which became real competition for another industrialist in the same field, German Moritz Milch. He was the one to launch his next investment in 1907 – a construction of modern factory in Luboń, which was put into operation in 1914. At that time, it was one of the most modern fertilizer factories in Europe, with the production capacity of 120 thousand tons of superphosphate a year. Milch managed his enterprise for the next six years, and then, he sold the Luboń factory in 1920 for 12

million marks to the thriving Towarzystwo Akcyjne (Joint-Stock Company) established on the basis of the company established by Roman May. Under Cyryl Ratajski's management the Joint-Stock Company, including the Luboń plants as well, developed into the largest commercial organization of chemical industry in Poland.

Year 1939 disrupted the operations of the concern. Production was resumed after the war, when the plant became state-owned.

During post-war years the company continued to grow and its investments and product portfolio extended as well. Like the entire industry, at the beginning of 1990s, the Company entered the period of market economy, and then, after four years of changes (in 1994) was transformed into Spółka Akcyjna (a Joint-Stock Company).

Year 2002 was the time of further organisation changes for the Company – transformation into Zakłady Chemiczne Luboń Sp. z o.o. (Chemical Plant Luboń limited liability company).

The dynamic growth of the company caused that its basic operation, consisting in production and trade of fertilizers, was combined with other forms of business, such as e.g. development of logistics and warehouse



centre. Taking into account further development perspectives, in 2008 the managing board of the company decided to transform the Company and change its name to Luvena Spółka Akcyjna (Luvena joint stock company).

## PROGRESS IS OUR TRADITION

Today's Luvena occupies approximately 60 ha of plant area and employs nearly 300 people.

Thanks to its experienced staff and highly qualified engineers, Luvena is a manufacturer of multi-component fertilizers recognised on both national and international markets.

Constantly developed knowledge and continuously modernised production lines let us be an innovative company, making an effort to meet the needs of agricultural industry and limiting adverse effects on natural environment.

Based on our long-standing experience and in the result of research and analyses performed we have created a range of state-of-the-art

fertilizers in several product lines: Lubofoskas, Lubofoses, Luboplons, Superphosphates and potassium fertilizers.

To meet the expectations of our Customers we care for efficient Customer service and ensuring top quality of manufactured products in full compliance with work safety and environmental protection requirements.

Our regional fertilizing consultants provide competent and exhaustive information on our products and their use in order to gain high yields, and are at the disposal of our Customers.



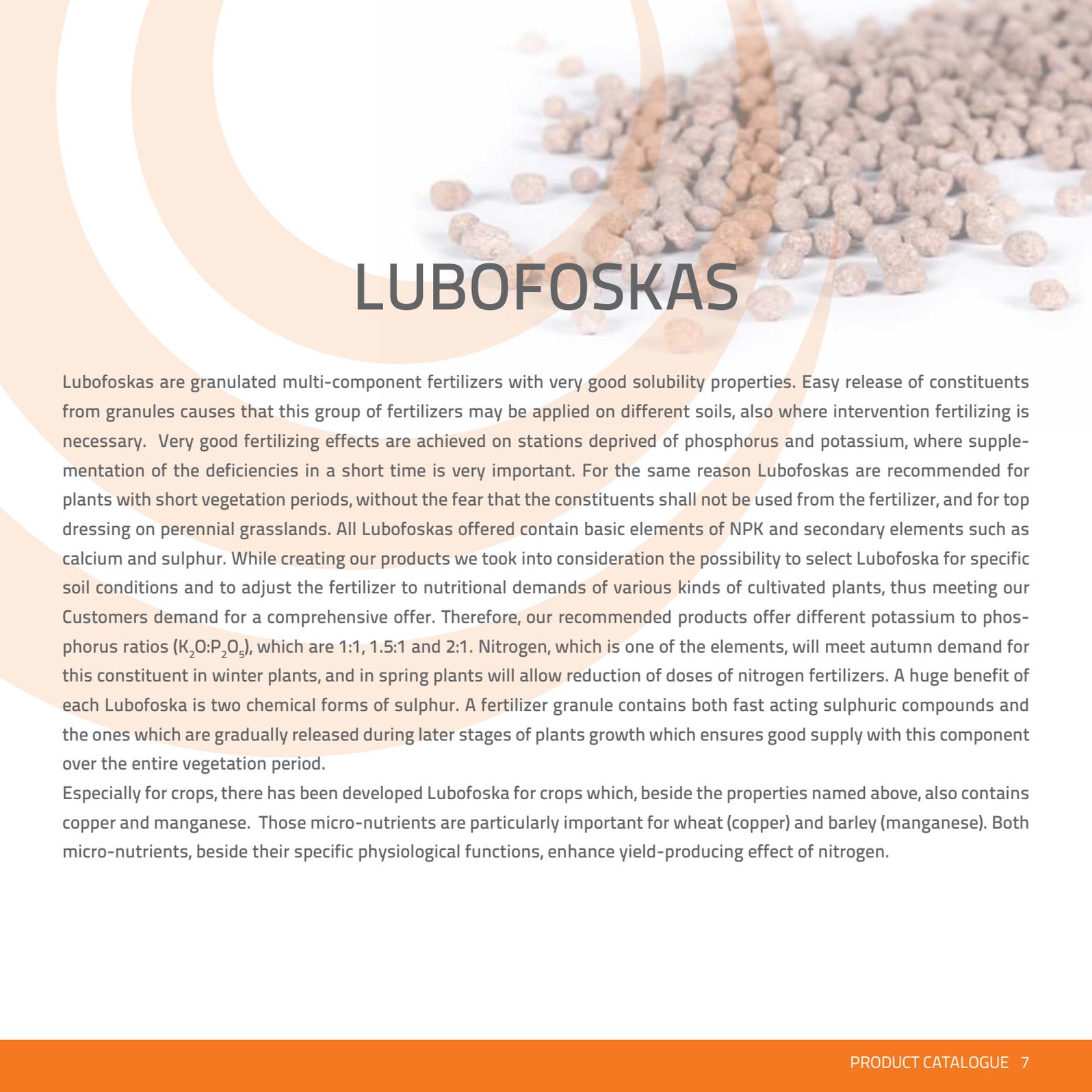
### LUVENA is associated with:

- invariably high quality of fertilizers combined with competitive prices
- continuous improvement of production processes
- constant extension of the range of fertilizing products
- quick execution of orders
- environmentally friendly production safe for the contractors
- professional, competent employees caring for comprehensive Customer service

LUVENA S.A. guarantees the declared quality of products and services through the continuously developed Management System based on PN-EN ISO 9001 standard.







# LUBOFOSKAS

Lubofoskas are granulated multi-component fertilizers with very good solubility properties. Easy release of constituents from granules causes that this group of fertilizers may be applied on different soils, also where intervention fertilizing is necessary. Very good fertilizing effects are achieved on stations deprived of phosphorus and potassium, where supplementation of the deficiencies in a short time is very important. For the same reason Lubofoskas are recommended for plants with short vegetation periods, without the fear that the constituents shall not be used from the fertilizer, and for top dressing on perennial grasslands. All Lubofoskas offered contain basic elements of NPK and secondary elements such as calcium and sulphur. While creating our products we took into consideration the possibility to select Lubofoska for specific soil conditions and to adjust the fertilizer to nutritional demands of various kinds of cultivated plants, thus meeting our Customers demand for a comprehensive offer. Therefore, our recommended products offer different potassium to phosphorus ratios ( $K_2O:P_2O_5$ ), which are 1:1, 1.5:1 and 2:1. Nitrogen, which is one of the elements, will meet autumn demand for this constituent in winter plants, and in spring plants will allow reduction of doses of nitrogen fertilizers. A huge benefit of each Lubofoska is two chemical forms of sulphur. A fertilizer granule contains both fast acting sulphuric compounds and the ones which are gradually released during later stages of plants growth which ensures good supply with this component over the entire vegetation period.

Especially for crops, there has been developed Lubofoska for crops which, beside the properties named above, also contains copper and manganese. Those micro-nutrients are particularly important for wheat (copper) and barley (manganese). Both micro-nutrients, beside their specific physiological functions, enhance yield-producing effect of nitrogen.

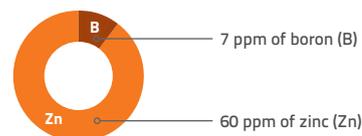
# LUBOFOSKA® FOR CROPS

EC FERTILIZER ▪ GRANULATED ▪ TYPE B.1.1.

NPK (Ca, S) 4-10-18-(12.5-26) with COPPER (Cu) 0,10 and MANGANESE (Mn) 0,2



Contains many micro-nutrients, such as:



- special composition adjusted to fertilization of winter and spring crops
- takes into account particularly high wheat demand for copper and barley demand for manganese
- in case of winter crops does not require additional fertilization in autumn
- contains sulphur which is released during the entire vegetation period
- due to the easily soluble forms content, it may be applied on stations deprived of mineral elements
- very good spreading properties

## GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 92%. Bulk Density: 0.95 – 1.0 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

## PROPERTIES

4%	ammonia nitrogen (N)
10%	phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in mineral acids
9%	phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in neutral solution of ammonium citrate and water
8%	phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water
18%	potassium oxide (K <sub>2</sub> O) soluble in water
12,5%	calcium oxide (Ca <sub>2</sub> O) soluble in water
26%	complete sulphur trioxide (SO <sub>3</sub> )
0,1%	complete copper (Cu)
0,2%	complete manganese (Mn)

## USE

Fertilization may be made before sowing. After application blend the fertilizer with the soil up to the depth of 10 - 20 cm. In case of application of very high doses of the fertilizer, it should be done 10-14 days before sowing the crops. In case of fertilization of malting barley, do not overdose nitrogen fertilizer in spring.

## DOSES [kg/ha]

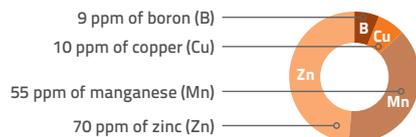
Fertilized plants	Yields level t/ha	Available phosphorus and potassium level in soil		
		low	medium	high
Winter wheat, for consumption	5,0 – 6,0	600	450	300
	above 6,0	700	550	350
Other winter crops	5,0 – 6,0	500	400	250
	above 6,0	600	450	300
All spring crops	4,0 – 5,0	475	350	200
	above 5,0	575	400	250

# LUBOFOSKA® 4-12-12

EC FERTILIZER ▪ GRANULATED ▪ TYPE B.1.1.  
NPK (Ca, S) 4-12-12- (14-29)



Contains many micro-nutrients,  
such as:



- universal - for fertilizing all cultivated plants
- excellent for winter crops and rapeseed - does not require autumn fertilization
- also suitable for spring fertilization of spring crops and bulb and root plants
- may also be applied for fruit and vegetable farming
- very good effectiveness on soils low in magnesium and sulphur
- applied on meadows and pastures
- very good spreading properties
- contained micro-nutrients improve availability of other components

## GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 92%. Bulk Density: 0.95 to 1.1 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

## PROPERTIES

ammonia nitrogen (N)	4%
phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in mineral acids	12%
phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in neutral solution of ammonium citrate and water	11%
phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water	10%
potassium oxide (K <sub>2</sub> O) soluble in water	12%
calcium oxide (Ca <sub>2</sub> O) soluble in water	14%
complete sulphur trioxide (SO <sub>3</sub> )	29%

## USE

The best effectiveness is achieved when Lubofoska® 4-12-12 is applied before sowing and mixed with soil to the depth of 10-20 cm during performance of pre-sowing cultivation treatment. This fertilizer does not contain compounds which could restrict sprouting of seeds which makes sowing possible 2-4 days after fertilization. On grasslands this fertilizer should be applied as top dressing and sown in early springs, in one-time application according to the dose of phosphorus intended for the entire vegetation period.

In fruit farming, fertilization should be performed after fruit picking. In vegetable cultivations, this fertilizer should be sown during station preparing treatment.

## DOSES [kg/ha]

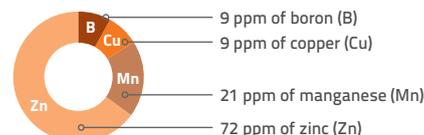
Fertilized plants	Yield ton/ha	Available phosphorus level in soil		
		low	medium	high
winter crops	5,0	500	400	300
spring crops	4,0	480	350	250
rapeseed	3,0	580	480	400
potatoes (on manure)	25,0	550	450	350
leguminous for seed	2,5	500	400	300

# LUBOFOSKA® 3,5-10-20

EC FERTILIZER ▪ GRANULATED ▪ TYPE B.1.1.  
NPK (Ca,S) 3,5-10-20- (12,5-25,5)



Contains many micro-nutrients,  
such as:



- universal - for fertilizing all types of cultivated plants (both winter and spring crops, such as winter rapeseed, sugar beet and maize)
- excellent in the conditions of severe phosphorus shortage in soil, thanks to very good solubility of phosphates in water
- fast effect due to good solubility in water
- satisfies even large demand for sulphur in different development stages
- very good spreading properties
- contained micro-nutrients improve availability of other components

## GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 92%. Bulk Density: 0.95 to 1.05 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

## PROPERTIES

3,5%	ammonia nitrogen (N)
10%	phosphorus pentoxide(P <sub>2</sub> O <sub>5</sub> ) soluble in mineral acids
9%	phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in neutral solution of ammonium citrate and water
8%	phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water
20%	potassium oxide (K <sub>2</sub> O) soluble in water
12,5%	calcium oxide (Ca <sub>2</sub> O) soluble in water
25,5%	complete sulphur trioxide (SO <sub>3</sub> )

## USE

Fertilization with Lubofoska® 3,5-10-20 should be made before sowing and after application the fertilizer should be blended with the soil up to the depth of 10-20 cm.

## DOSES [kg/ha]

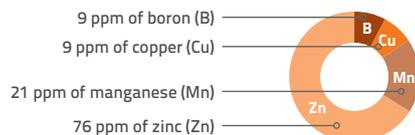
Fertilized plants	Yield ton/ha	Available phosphorus and potassium level in soil		
		low	medium	high
winter crops	5,0	500	400	250
spring crops	4,0	450	350	200
winter rapeseed	3,0	650	550	350
potatoes (on manure)	25,0	550	400	300
maize for seed	7,0	620	480	320
leguminous for seed	2,5	500	375	250
mow grassland	6,0	700	550	350
papilionaceous plants with grass – green feeder	50,0	750	600	350
grass in field cultivation – green feeder	45,0	750	600	350

# LUBOFOSKA® 5-10-15

EC FERTILIZER ▪ GRANULATED ▪ TYPE B.1.1.  
NPK (Ca,S) 5-10-15- (12,5-30)



Contains many micro-nutrients,  
such as:



for all cultivated plants, especially winter, spring crops, rapeseed, and bulb and root plants

may also be applied for potatoes, sugar beets, leguminous and fine-seed papilionaceous plants cultivated as mixtures with grass particularly recommended for soil low in potassium and with medium level of phosphorus

it is also recommended for meadows and pasturages as top dressing fertilizer, due to its very good solubility

beneficial phosphorus to potassium proportion - 1 to 1.5

very good spreading properties

contained micro-nutrients improve availability of other components

## GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 92%. Bulk Density: 0.9 to 1.0 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

## PROPERTIES

ammonia nitrogen (N)	5%
phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in mineral acids	10%
phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in neutral solution of ammonium citrate and water	9%
phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water	8%
potassium oxide (K <sub>2</sub> O) soluble in water	15%
calcium oxide (CaO) soluble in water	12,5%
complete sulphur trioxide (SO <sub>3</sub> )	30%

## USE

The best effectiveness is achieved when Lubofoska® 5-10-15 is applied before sowing and mixed with soil to the depth of 10 - 20 cm during performance of pre-sowing cultivation treatment.

This fertilizer does not contain components which could restrict sprouting of seeds which makes sowing possible 2-4 days after fertilization. On grasslands this fertilizer should be applied as top dressing and sown in early spring, in one-time application according to the dose of phosphorus and potassium intended for the entire vegetation period.

## DOSES [kg/ha]

Fertilized plants	Yield ton/ha	Available phosphorus and potassium level in soil		
		low	medium	high
winter crops	5,0	650	500	350
spring crops	4,0	600	470	320
winter rapeseed	3,0	750	650	500
sugar beet (on manure)	40,0	800	650	500
potatoes (on manure)	25,0	700	500	400
leguminous for seed	2,5	600	450	300
mow grassland	6,0	750	600	400
papilionaceous plants with grass - green feeder	50,0	800	650	500
grass in field cultivation – green feeder	45,0	800	650	500





# SUPERPHOSPHATES

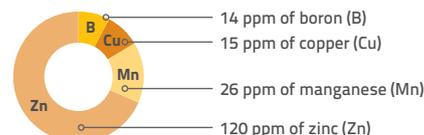
Superphosphates are a well-known and reliable brand. It is worth recalling that the history of production of simple superphosphate in the world dates back to 19th century, and a prototype of the fertilizer was developed shortly after the famous Liebig's law of the minimum was formulated. In this fertilizer phosphorus is very well soluble in water (at least 93% of phosphorus compounds), which means it is highly universal and has wide applicability. In consideration of various preferences of the consumers, our superphosphates are produced in granulated and powdery form. Due to the specific nature of fertilization of perennial fields, in this kind of cultivation the powdery form is used more frequently. Beside phosphorus, each simple superphosphate contains calcium and sulphur. Sulphur carriers are calcium sulphates with different hydration levels, which constitute approx. 50% of the fertilizer mass. Numerous experiments performed abroad and in Poland, unequivocally indicate the yield-promoting effect of sulphur from the simple superphosphate. Assuming that the superphosphate is applied before sowing, the systematic release of sulphates from a fertilizer granule shall not result in quick washing out of sulphate anions, but rather will ensure good nutrition with sulphur until the end of vegetation period. According to the modern attitude to fertilization, a simple superphosphate should be treated as a phosphorus-sulphur fertilizer.

# GRANULATED SUPERPHOSPHATE

EC FERTILIZER ■ GRANULATED ■ TYPE A.2.2a  
SIMPLE SUPERPHOSPHATE P (Ca, S) 19-(25-32,5)



Contains many micro-nutrients,  
such as:



- for pre-sowing application for all cultivated plants
- on all soils irrespective of their chemical composition
- contains very well soluble form of phosphorus
- yield-promoting effect thanks to high sulphur content which is released during the entire vegetation period of a plant

## GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 92%. Bulk density: 1.0 to 1.1 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

## PROPERTIES

19%	phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in neutral solution of ammonium citrate, incl. min. 93.0% soluble in water
25%	calcium oxide (CaO) soluble in water
32,5%	complete sulphur trioxide (SO <sub>3</sub> );

## USE

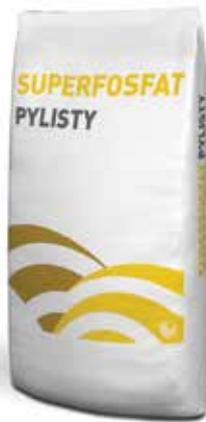
Granulated Superphosphate is a typical pre-seeding fertilizer. It is necessary to mix it with the soil up to the depth of 10-15 cm. The fertilizer stays on top of the sod only in case of grassland and is gradually transported deep inside by precipitation waters.

## DOSES [kg/ha]

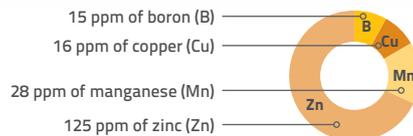
Fertilized plants	Yield ton/ha	Available phosphorus level in soil		
		low	medium	high
winter crops	5,0	380	250	170
spring crops	4,0	320	220	150
rapeseed	3,0	400	280	200
maize for seed	7,0	600	450	300
sugar beet (on manure)	40,0	400	200	100
potatoes (on manure)	25,0	400	200	100
leguminous for seed	2,5	320	200	120
mow grassland	6,0	500	350	240
maize for green feeder	50,0	550	380	250
papilionaceous plant with grass - green feeder	50,0	550	420	250
grass in field cultivation - green feeder	45,0	550	420	250

# POWDERY SUPERPHOSPHATE

EC FERTILIZER ▪ TYPE A.2.2a  
SIMPLE SUPERPHOSPHATE P (Ca, S) 17-(24-30)



Contains many micro-nutrients,  
such as:



- for pre-sowing application for all cultivated plants
- on all soils irrespective of their chemical composition
- also for use on grasslands where it gives better results than the granulated one
- contains very well soluble form of phosphorus
- yield-promoting effect thanks to high sulphur content which is released during the entire vegetation period of a plant

## BULK DENSITY

Bulk Density: 1.0 to 1.1 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

## PROPERTIES

phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in neutral solution of ammonium citrate, incl. min. 93.0% soluble in water	17%
calcium oxide (CaO) soluble in water	24%
complete sulphur trioxide (SO <sub>3</sub> )	30%

## USE

Powdery Superphosphate is a typical pre-sowing fertilizer. It is necessary to mix it with the soil to the depth of 15 cm. The fertilizer stays on top of the sod only in case of grassland and is gradually transported deep inside by precipitation waters.

## DOSES [kg/ha]

Fertilized plants	Yield ton/ha	Available phosphorus level in soil		
		low	medium	high
winter crops	5,0	380	250	170
spring crops	4,0	320	220	150
rapeseed	3,0	400	280	200
maize for seed	7,0	600	450	300
sugar beet (on manure)	40,0	400	200	100
potatoes (on manure)	25,0	400	200	100
leguminous for seed	2,5	320	200	120
mow grassland	6,0	500	350	240
maize for green feeder	50,0	550	380	250
papilionaceous plant with grass - green feeder	50,0	550	420	250
grass in field cultivation - green feeder	45,0	550	420	250





# LUBOFOSES

All Lubofoses are multi-component, granulated fertilizers. Their characteristic features include different forms of phosphorus. Each granule contains phosphorus compounds very well soluble in water (analogously to superphosphate) and calcium phosphates which are less soluble. It is a very beneficial formula because it takes into account the physiology of accumulation of phosphorus by most cultivated plants. In the initial phase of plant growth phosphorus is required to build a strong root system, and during that period phosphates anions are released from well soluble forms contained in the fertilizer. The other period of intensified accumulation of phosphorus takes place at the end of vegetation, during development of seeds and grains. By that time the less soluble phosphorus compounds are released from a granule. Thus the plants are supplied with phosphorus during the entire vegetation period, and not only during the initial development stages. Lubofoses are the most diversified group of fertilizers we produce, as regards the range of products. Their range of use is very wide because it includes current supply of mineral elements to cultivated plants, improvement of soil composition, i.e. preparation of the station for the next plant, fertilization of perennial fields and high effectiveness on slightly acidic or acidic soils, also the degraded ones. This group also includes fertilizers whose chemical composition was developed with the specific cultivated plants in mind, and taking into account not only the potassium to phosphorus ratio in the fertilizer, but also the specific nutritional needs of respective species. For example, fertilizers dedicated to maize contain zinc and boron, to sugar beets – sodium and boron, to rapeseed – boron, and in Lubofos for potato – a part of potassium was added in the sulphate form. Such formula allows complex nutrition of the entire field with all required mineral elements, and the only supplementation which is required is with nitrogen. Our offer also includes Lubofos chloride free, dedicated first of all to cultivations sensitive to high concentrations of chloride in soil solution (most horticultural plants). A huge benefit of these fertilizers is also high level of calcium and sulphur in sulphate form with different soil release time. Both components are responsible for plants health and significantly improve the effectiveness of nitrogen fertilization.

# LUBOFOS® 5-10-25

EC FERTILIZER ▪ GRANULATED ▪ TYPE B.1.1.

NPK (S) 5-10-25-(15)



- for use under all cultivated plants, especially bulb and root plants, winter rapeseed, plants for fodder
- particularly recommended for sulphur-loving plants, e.g. rapeseed, cabbage, garlic and onion
- particularly recommended for soil low in potassium
- contains both fast, and slow release forms of phosphorus and sulphur
- in cultivation of winter crops supplies required amounts of nitrogen during autumn period
- in case of spring crops permits reduced spring doses of nitrogen fertilizers
- very good spreading properties
- the micro-nutrients improve availability of other components

## GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 90%. Bulk density: 0.9 to 1.0 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

## PROPERTIES

5%	(N) ammonia nitrogen
10%	phosphorus pentoxide(P <sub>2</sub> O <sub>5</sub> ) soluble in mineral acids
5%	phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in neutral solution of ammonium citrate and water
2,5%	phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water
25%	potassium oxide (K <sub>2</sub> O) soluble in water
15%	sulphur trioxide (SO <sub>3</sub> ) soluble in water

## USE

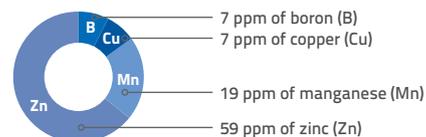
It is best to fertilize with Lubofos® 5-10-25 before sowing, and after application, blend the fertilizer with the soil to the depth of 10-20 cm. This fertilizer does not contain components that could restrict sprouting of seeds which makes it possible to apply it immediately before sowing the cultivated plant. However, in spring fertilization of sugar beets, the fertilizer has to be put into the soil 10-14 days before sowing the seeds, especially in case there is applied single, large dose of the fertilizer.

As regards grassland it is advisable to divide the recommended dose into two parts and perform first fertilization in early spring and the other after harvesting the first crop or after second pasturage.

## DOSES [kg/ha]

Fertilized plants	Yield ton/ha	Available phosphorus and potassium level in soil		
		low	medium	high
winter crops	5,0	500	350	200
spring crops	4,0	500	350	200
winter rapeseed	3,0	600	500	300
sugar beet (on manure)	40,0	550	450	300
potatoes (on manure)	25,0	500	350	250
leguminous for seed	2,5	500	375	250
mow grassland	6,0	650	450	300
papilionaceous plants with grass – green feeder	50,0	675	450	300
grass in field cultivation – green feeder	45,0	650	450	300

Contains many micro-nutrients, such as:

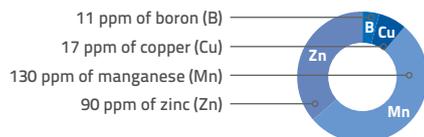


# LUBOFOS® 12

EC FERTILIZER ■ GRANULATED ■ TYPE B.4.  
PK (Ca, Mg, S) 12-20- (2-4,5-6)



Contains many micro-nutrients,  
such as:



- for fertilizing all field cultivated plants
- due to high potassium content, in comparison to phosphorus, it is recommended for cultivation of bulb and root plants
- due to magnesium content, which is required for animals, it is recommended for cultivation of crops and grassland
- very good spreading properties
- contained micro-nutrients improve availability of other components

## GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 90%. Bulk Density: 1.05 to 1.15 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

## PROPERTIES

phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in mineral acids, including at least 55% phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in 2% solution of formic acid	12%
potassium oxide (K <sub>2</sub> O) soluble in water	20%
calcium oxide (CaO) soluble in water	2%
complete magnesium oxide (MgO)	4,5%
complete sulphur trioxide (SO <sub>3</sub> )	6%

## USE

The best effectiveness is achieved when Lubofos® 12 is applied before sowing and mixed with the soil to the depth of 10-15 cm during performance of pre-sowing cultivation treatments. This fertilizer is suitable for all types of soil, regardless of their heaviness and reaction.

As regards grassland, it is advisable to divide the recommended dose into two parts and perform first fertilization in early spring and the other after harvesting the first crop or after second pasturage.

## DOSES [kg/ha]

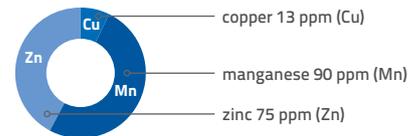
Fertilized plants	Yield ton/ha	Available potassium and phosphorus level in soil		
		low	medium	high
winter crops	5,0	550	420	300
spring crops	4,0	480	360	250
rapeseed	3,0	620	500	350
maize for seed	7,0	700	550	400
sugar beet (on manure)	40,0	650	500	350
potatoes (on manure)	25,0	500	370	270
leguminous for seed	2,5	450	350	250
mow grassland	6,0	650	500	350
papilionaceous plant with grass – green feeder	50,0	760	600	400
grass in field cultivation – green feeder	45,0	760	600	400

# LUBOFOS® FOR RAPE

EC FERTILIZER ▪ GRANULATED ▪ TYPE B.1.1.  
NPK (Ca, Mg,S) 3,5-10-18,5-(2-2,5-14,5) with BORON (B) 0,2



Contains many micro-nutrients,  
such as:



- particularly recommended for use in rapeseed cultivation
- it is also recommended for other crucifers (mustard, agrimony, cruciferous vegetables)
- meets specific rapeseed demand for sulphur, boron and manganese
- ensures high yield
- in case of winter crops, it increases frost resistance and winter hardiness
- very good spreading properties

## GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 90%. Bulk Density: 0.95 to 1.05 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

## PROPERTIES

3,5%	ammonia nitrogen (N)
10%	phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in mineral acids, including at least 55% phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in 2% solution of formic acid
18,5%	potassium oxide (K <sub>2</sub> O) soluble in water
2%	calcium oxide (CaO) soluble in water
2,5%	complete magnesium oxide (MgO)
14,5%	complete sulphur trioxide (SO <sub>3</sub> )
0,2%	complete boron (B)

## USE

The best effectiveness is achieved when Lubofos® for Rape is applied before sowing and mixed with the soil to the depth of 10-15 cm during performance of pre-sowing cultivation treatments.

## DOSES [kg/ha]

Yields level	Available potassium and phosphorus level in soil		
	low	medium	high
below 2,5 t/ha	550	400	250
2,5-3,0 t/ha	650	500	300
above 3,0 t/ha	750	600	350



# LUBOFOS® FOR BEET

EC FERTILIZER ▪ GRANULATED ▪ TYPE B.1.1.  
NPK (Ca, Na,S) 3,5-10-21-(2-2,2-14,5) with BORON (B) 0,2

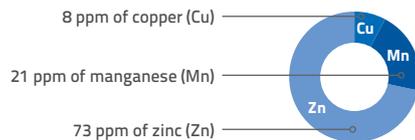


- particularly recommended for use in sugar beet cultivation
- meets the specific demand of beet for sodium and boron
- ensures high yield
- potassium to phosphorus proportion (2:1) is adjusted to beet's requirements
- in fruit farming it is recommended to use under trees with high demand for boron: under apple, cherry, peach and pear trees
- it is also recommended for cultivation of vegetables which require good supply of boron, i.e. cruciferous plants, carrot, celeriac
- very good spreading properties

## GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 90%. Bulk Density: 0.9 to 1.0 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

Contains many micro-nutrients,  
such as:



## PROPERTIES

ammonia nitrogen (N)	3,5%
phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in mineral acids, including at least 55% phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in 2% solution of formic acid	10%
potassium oxide (K <sub>2</sub> O) soluble in water	21%
calcium oxide (CaO) soluble in water	2%
complete sodium (Na)	2,2%
complete sulphur trioxide (SO <sub>3</sub> )	14,5%
complete boron (B)	0,2%

## USE

Lubofos® for Beet is a granulated fertilizer for pre-sowing application. After application this fertilizer should be well-mixed with the soil. The presence of ammonium form of nitrate which is well bound in soil makes Lubofos® for Beet suitable for use in any pre-sowing period. If large doses of ingredients are required, it is recommended that fertilization is made not later than 10-14 days before beet sowing. In fruit farming, fertilization should be performed after fruit picking. In vegetable cultivations, this fertilizer should be sown during station preparing treatment.

## DOSES [kg/ha] – yield 40 t/ha on manure

Available phosphorus and potassium level in soil			
low	medium	high	very high
650-700	450	250	100-150

NOTE! If manure is not applied, the doses should be increased by 75%.

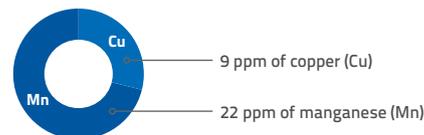
# LUBOFOS® CORN

EC FERTILIZER ▪ GRANULATED ▪ TYPE B.1.1.

NPK (Ca, S) 5-10-21-(2-18,5) with BORON (B) 0,09, ZINC (Zn) 0,20



Contains many micro-nutrients, such as:



- recommended especially for maize fertilization
- ensures high yields of grains, CCM, ensilage, green feeder
- satisfies specific nutritional demand of maize for phosphorus and zinc – the components which determine high yields
- it is also recommended for cultivation of pea, onion and flax
- due to zinc and boron content, it is also recommended for cultivation of fruit and vegetables
- very good spreading properties

## GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 90%. Bulk Density: 0.9 to 1.0 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

## PROPERTIES

5%	ammonia nitrogen (N)
10%	phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in mineral acids, including at least 55% phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in 2% solution of formic acid
21%	potassium oxide (K <sub>2</sub> O) soluble in water
2%	calcium oxide (CaO) soluble in water
18,5%	complete sulphur trioxide (SO <sub>3</sub> )
0,09%	complete boron (B)
0,2%	complete zinc (Zn)

## USE

The best effectiveness is achieved when Lubofos® Corn is applied before sowing and mixed with the soil to the depth of 10-15 cm during performance of pre-sowing cultivation treatments.

This fertilizer may also be used in the start dose, which means that it can be sown together with maize seeds. The only condition of applying the start fertilizing is to have a typical sowing machine for simultaneous maize seeds and fertilizer spreading.

In fruit farming, fertilization should be performed after fruit picking. In vegetable cultivations, this fertilizer should be sown during station preparing treatment.

## DOSES [kg/ha] in maize cultivation for grains and CCM\*

Yields level	Available phosphorus and potassium level in soil**			
	low	medium	high	very high***
average (5 t/ha)	500-600	300-400	100-200	50-100
high (8 t/ha)	650-750	550-650	250-350	100-200

\* In maize cultivation for ensilage, the dose of fertilizer applied to a station with average and low soil content, shall be increased by 50 kg/ha.

\*\* In a situation where both compounds belong to different composition classes, the dose of fertilizer is determined for the component in the lower class of the two.

\*\*\* In good weather conditions, the yield may be higher than has been assumed.



# LUBOFOS® FOR POTATOES

EC FERTILIZER ▪ GRANULATED ▪ TYPE B.1.1.  
NPK (Mg, S) 3,5-7-25-(2,5-19,5)



- recommended especially for potato fertilization
- particularly recommended for soil low in potassium, with medium level of phosphorus and without organic fertilization applied
- shows very good effect on the quality of bulbs and starch content, thanks to the presence of potassium sulphate
- very good spreading properties
- contained micro-nutrients improve availability of other components

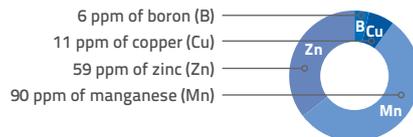
## GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 90%. Bulk Density: 0.9 to 1.0 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

## PROPERTIES

ammonia nitrogen (N)	<b>3,5%</b>
phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in mineral acids, including at least 55% phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in 2% solution of formic acid	<b>7%</b>
potassium oxide (K <sub>2</sub> O) in chloride and sulphate form, soluble in water	<b>25%</b>
complete magnesium oxide (MgO)	<b>2,5%</b>
complete sulphur trioxide (SO <sub>3</sub> )	<b>19,5%</b>

Contains many micro-nutrients,  
such as:



## USE

The best effectiveness is achieved when Lubofos® for Potatoes is applied before sowing and mixed with the soil to the depth of 10-15 cm during performance of pre-sowing cultivation treatments.

## DOSES [kg/ha] – yield 25 t/ha

Organic fertilization	Available phosphorus level in soil*		
	low	medium	high
with manure	500	350	200
without manure	800	600	400

\* If phosphorus and potassium levels in the soil allow its qualification to the same classes, the doses indicated above should be increased by 15-20%.

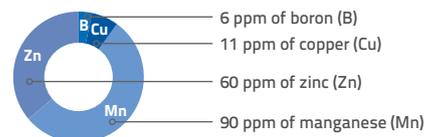
# LUBOFOS® CHLORIDE FREE 3,5-10-15

EC FERTILIZER ■ GRANULATED ■ TYPE B.1.1.

NPK (Ca, Mg, S) 3,5-10-15-(2-2,5-27,5)



Contains many micro-nutrients, such as:



- for fertilization of plants which do not tolerate high chloride concentration (potato, shrubs, fruit trees, vegetables, flowers, rose nurseries, tobacco and hop)
- due to sulphur content, it is also recommended under sulphur-loving cultivations (papilionaceous plants, rapeseed, and cruciferous plants)
- contains calcium and magnesium in the form of sulphates
- the forms of components contained in the fertilizer have very beneficial effect on the growth and development of plants
- very good spreading properties

## GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 90%. Bulk Density: 0.95 to 1.1 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

## PROPERTIES

3,5%	ammonia nitrogen (N)
10%	phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in mineral acids, including at least 55% phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in 2% solution of formic acid
15%	potassium oxide (K <sub>2</sub> O) soluble in water
2%	calcium oxide (CaO) soluble in water
2,5%	complete magnesium oxide (MgO)
27,5%	complete sulphur trioxide (SO <sub>3</sub> )

## USE

The best effectiveness is achieved, when Lubofos® Chloride free is applied before sowing and mixed with the soil to the depth of 10-15 cm during performance of pre-sowing cultivation treatments. This fertilizer is suitable for all types of soil, regardless of their heaviness and reaction.

In top dressing, it is good to apply this fertilizer during one of the maintenance treatments in orchards and nurseries. Spread the fertilizer evenly around trees and shrubs, and mix with soil, if possible.

## DOSES [kg/ha]

Fertilized plants	Available phosphorus and potassium level in soil		
	low	medium	high
vegetables in field cultivation*	350	300	250
trees and shrubs	400	300	200
potatoes	450	400	350
strawberries, raspberries	300	250	200
papilionaceous	400	300	200
tobacco, hop	400	350	300
onion	550	400	250
rapeseed	600	500	400
rose and trees nurseries	500	350	250
cabbage	300	250	200

\*Values given are only approximate; take into account specific needs of respective species.

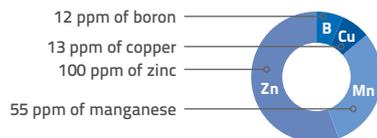


# LUBOFOS® PK

EC FERTILIZER ■ GRANULATED ■ TYPE B.4.  
PK (Ca, S) 14-24- (3-6,5)



Contains many micro-nutrients,  
such as:



- for fertilizing all field cultivated plants
- due to high potassium content, in comparison to phosphorus, it is recommended for cultivation of bulb and root plants
- also recommended for cultivation of crops and grassland
- very good spreading properties
- contained micro-nutrients improve availability of other components

## GRANULATION AND BULK DENSITY

Min. content of typical granules size 2.0 to 5.0 mm 90%. Bulk Density: 1.0 to 1.05 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlobunia.pl](http://www.nawozyzlobunia.pl)

## PROPERTIES

phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in mineral acids, including at least 55% phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in 2% solution of formic acid	14%
potassium oxide (K <sub>2</sub> O) soluble in water	24%
calcium oxide (CaO) soluble in water	3%
complete sulphur trioxide (SO <sub>3</sub> )	6,5%

## USE

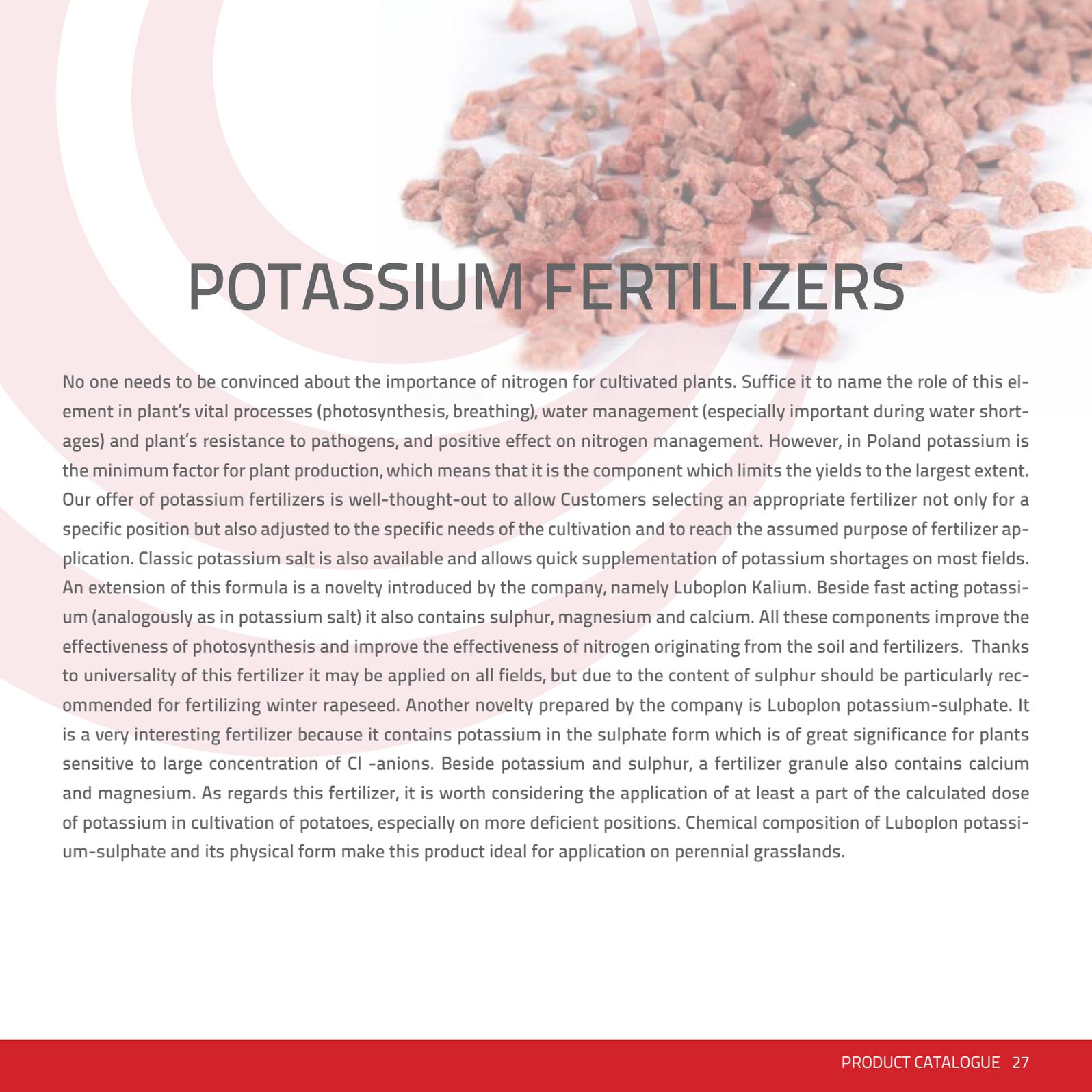
The best effectiveness is achieved when Lubofos® PK is applied before sowing and mixed with the soil to the depth of 10-15 cm during performance of pre-sowing cultivation treatments. This fertilizer does not contain compounds that could restrict sprouting of seeds which makes sowing possible 2-4 days after fertilization. This fertilizer is suitable for all types of soil, regardless of their heaviness and reaction.

As regards grassland, it is advisable to divide the recommended dose into two parts and perform first fertilization in early spring and the other after harvesting the first crop or after second pasturage.

## DOSES [kg/ha]

Fertilized plants	Yield ton/ha	Available phosphorus and potassium level in soil		
		low	medium	high
winter crops	5,0	450	350	250
spring crops	4,0	400	300	200
rapeseed	3,0	550	450	300
sugar beet (on manure)	40,0	550	400	250
potatoes (on manure)	25,0	450	300	220
leguminous for seed	2,5	380	270	200
mow grassland	6,0	600	450	280
papilionaceous plant with grass – green feeder	50,0	700	550	350
grass in field cultivation – green feeder	45,0	700	550	350
maize for seed	7,0	700	550	400





# POTASSIUM FERTILIZERS

No one needs to be convinced about the importance of nitrogen for cultivated plants. Suffice it to name the role of this element in plant's vital processes (photosynthesis, breathing), water management (especially important during water shortages) and plant's resistance to pathogens, and positive effect on nitrogen management. However, in Poland potassium is the minimum factor for plant production, which means that it is the component which limits the yields to the largest extent. Our offer of potassium fertilizers is well-thought-out to allow Customers selecting an appropriate fertilizer not only for a specific position but also adjusted to the specific needs of the cultivation and to reach the assumed purpose of fertilizer application. Classic potassium salt is also available and allows quick supplementation of potassium shortages on most fields. An extension of this formula is a novelty introduced by the company, namely Luboplon Kalium. Beside fast acting potassium (analogously as in potassium salt) it also contains sulphur, magnesium and calcium. All these components improve the effectiveness of photosynthesis and improve the effectiveness of nitrogen originating from the soil and fertilizers. Thanks to universality of this fertilizer it may be applied on all fields, but due to the content of sulphur should be particularly recommended for fertilizing winter rapeseed. Another novelty prepared by the company is Luboplon potassium-sulphate. It is a very interesting fertilizer because it contains potassium in the sulphate form which is of great significance for plants sensitive to large concentration of Cl<sup>-</sup> anions. Beside potassium and sulphur, a fertilizer granule also contains calcium and magnesium. As regards this fertilizer, it is worth considering the application of at least a part of the calculated dose of potassium in cultivation of potatoes, especially on more deficient positions. Chemical composition of Luboplon potassium-sulphate and its physical form make this product ideal for application on perennial grasslands.

# POTASSIUM CHLORIDE

EC FERTILIZER ▪ GRANULATED ▪ TYPE A.3.3.  
POTASSIUM CHLORIDE



- intended for use on all soils and under all cultivated plants, except for the plants particularly sensitive to chloride present in the fertilizer
- enhances the effectiveness of fertilization with nitrogen
- improves plants' resistance to stress conditions
- causes that plants manage water more rationally, especially during soil drought
- activates protection mechanism against diseases and pests
- improves the ability to regenerate winter plants in early spring
- very good spreading properties

## GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 95%. Bulk density: 0.95 to 1.1 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

## PROPERTIES

60% potassium oxide (K<sub>2</sub>O) soluble in water

## USE

The best effects of the fertilizer are observed with pre-sowing fertilization. After sowing the fertilizer should be mixed with the soil at a depth of 10-20 cm. On winter plants fields it is possible to apply the fertilizer as top dressing before the spring vegetation of plants starts. As for grasslands, it is best to fertilize them in early spring. If large amounts are to be put in the soil, a part of the dose should be applied after the first harvest or pasturage.

## DOSES [kg/ha]

Fertilized plants	Yield ton/ha	Available potassium level in soil		
		low	medium	high
winter crops	6,0	250	200	100
spring crops	5,0	200	150	75
winter rapeseed	3,0	350	250	150
maize for seed	7,0	350	250	150
leguminous for seed	2,5	180	100	50
mow grassland	6,0	300	200	100
papilionaceous plant with grass – green feeder	50,0	250	180	100
grass in field cultivation – green feeder	45,0	250	180	100



# LUBOPLON® KALIUM

EC FERTILIZER ▪ GRANULATED ▪ TYPE A.3.3.  
POTASSIUM CHLORIDE K (Ca, Mg, S) 40-(4,5-4-13)



- intended for use on all soils and under all cultivated plants, except for the plants particularly sensitive to chloride present in the fertilizer
- very suitable for fertilization of winter rapeseed and perennial grasslands
- recommended for both ongoing fertilizing of plants and improvement of potassium content in soil
- contains well soluble potassium compounds
- very good spreading properties

## GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 90%. Bulk density: 0.9 to 1.05 kg/dcm<sup>3</sup>  
For valid Conformity Certificate see [www.nawozyzlubonia.pl](http://www.nawozyzlubonia.pl)

## PROPERTIES

potassium oxide (K <sub>2</sub> O) soluble in water	40%
complete calcium oxide (CaO)	7,5%
calcium oxide (Ca <sub>2</sub> O) soluble in water	4,5%
complete magnesium oxide (MgO)	4%
complete sulphur trioxide (SO <sub>3</sub> )	13%

## USE

The best effects of the fertilizer are observed with pre-sowing fertilization. After sowing the fertilizer should be mixed with the soil at a depth of 10–20 cm. In cultivation of sugar beets avoid application of high doses of the fertilizer immediately before sowing. On stations intended for beets, any correction of soil composition requiring application of high dose of an element should be made in autumn. On winter plants fields it is possible to apply the fertilizer as top dressing before the spring vegetation of plants starts. As for grasslands, it is best to fertilize them in early spring. If large amounts of potassium are to be put in the soil, a part of the dose should be applied after the first harvest or pasturage.

## DOSES [kg/ha]

Fertilized plants	Yield ton/ha	Available potassium level in soil		
		low	medium	high
winter crops	6,0	350	300	150
spring crops	5,0	300	250	120
winter rapeseed	3,0	525	375	225
sugar beet (on manure)	45,0	600	300	150
maize for seed	7,0	525	375	225
leguminous for seed	2,5	275	150	75
mow grassland	6,0	450	300	150
papilionaceous (leguminous) plants with grass – green feeder	50,0	375	250	150
grass in field cultivation – green feeder	45,0	375	250	150

# LUBOPLON®

## POTASSIUM - SULPHATE

GRANULATED ▪ EC FERTILIZER ▪ TYPE A.3.1.  
 POTASSIUM SULPHATE K (Ca, Mg, S) 14-(15,5-6-48)



- for use on all soils and for all cultivated plants
- due to high content of sulphates, it is particularly recommended for use on rapeseed, onion and garlic fields
- contributes to improved quality of fodder, in case perennial grasslands are fertilized
- it constitutes perfect supplementation of components, especially in light soils
- enhances the effectiveness of fertilization with nitrogen
- stimulates reconstruction of damaged plant tissues after winter
- stabilizes soil reaction and limits toxic effect of aluminium on plants
- very good spreading properties

### GRANULATION AND BULK DENSITY

Typical content of granules size 2.0 to 5.0 mm min. 90%. Bulk density: 1.2 to 1.35 kg/dcm<sup>3</sup>

### PROPERTIES

14%	potassium oxide (K <sub>2</sub> O) soluble in water
15,5%	calcium oxide (Ca <sub>2</sub> O) soluble in water
6%	magnesium oxide (MgO) soluble in water
48%	sulphur trioxide (SO <sub>2</sub> ) soluble in water

### USE

This fertilizer may be used both before sowing and during vegetation period. As regards spring plants, it is best to fertilize few days before sowing, and in case of nutritional stress, this treatment may be repeated also in the initial time of plants' growth. It is best to apply top dressing of winter crops (rapeseed, crops) one time, in early spring when the plants start their vegetation. On perennial grasslands it is best to apply the fertilizer after the first harvest or directly after pasturage.

### DOSES [kg/ha]

Plant	The risk of sulphur deficiency	Fertilizer doses kg/ha
winter rapeseed	low	100
	high	200
garlic, onion, cabbage	low	100
	high	150
other vegetables		50-100
crops		50-100
sugar beet		100
potatoes		150
leguminous		100
perennial grassland (in total during the entire season)		100-150





# CHANGE OF PACKAGES

Packages available  
in 2015 season\*

\*subject to availability

Packages available  
since 2015/2016 season



Sack 50 kg    Big – bag 500 kg

LUBOFOSKAS



Sack 50 kg    Big – bag 500 kg



Sack 50 kg    Sack 50 kg    Big – bag 500 kg

**SUPERPHOSPHATE 19    SUPERPHOSPHATE 20**

SUPERPHOSPHATES



Sack 50 kg    Sack 50 kg    Big – bag 500 kg

**POWDERY SUPERPHOSPHATE    GRANULATED SUPERPHOSPHATE**



Sack 50 kg    Big – bag 500 kg

LUBOFOSSES



Sack 50 kg    Big – bag 500 kg

# CHANGE OF PACKAGES

Packages available  
in 2015 season\*

\*subject to availability



Sack 50 kg

Big – bag 500 kg

POTASSIUM CHLORIDE

Packages available  
since 2015/2016 season



Sack 50 kg

Big – bag 500 kg



Sack 50 kg

Big – bag 500 kg

LUBOPLON® KALIUM



Sack 50 kg

Big – bag 500 kg

# SUMMARY OF FERTILIZERS COMPOSITIONS

Nazwa nawozu	Skład [%]										
	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn
LUBOFOSKA® FOR CROPS	4	10	18	12,5			26			0,10	0,2
LUBOFOSKA® 4-12-12	4	12	12	14			29				
LUBOFOSKA® 3,5-10-20	3,5	10	20	12,5			25,5				
LUBOFOSKA® 5-10-15	5	10	15	12,5			30				
LUBOFOS® 5-10-25	5	10	25				15				
LUBOFOS® 12		12	20	2	4,5		6				
LUBOFOS® FOR RAPE	3,5	10	18,5	2	2,5		14,5	0,2			
LUBOFOS® FOR BEET	3,5	10	21	2		2,2	14,5	0,2			
LUBOFOS® CORN	5	10	21	2			18,5	0,09	0,20		
LUBOFOS® FOR POTATOES	3,5	7	25		2,5		19,5				
LUBOFOS® CHLORIDE FREE 3,5-10-15	3,5	10	15	2	2,5		27,5				
LUBOFOS® PK		14	24	3			6,5				
GRANULATED SUPERPHOSPHATE		19		25			32,5				
POWDERY SUPERPHOSPHATE		17		24			30				
POTASSIUM CHLORIDE			60								
LUBOPLON® KALIUM			40	7,5	4		13				
LUBOPLON® POTASSIUM-SULPHATE			14	15,5	6		48				

# FERTILIZERS

INTENDED FOR DIFFERENT KINDS OF CULTIVATION

FERTILIZERS FOR CROPS	Skład (%)											
granulated	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn	page
LUBOFOSKA® FOR CROPS	4	10	18	12,5			26			0,1	0,2	8
LUBOFOSKA® 3,5-10-20	3,5	10	20	12,5			25,5					10
LUBOFOSKA® 5-10-15	5	10	15	12,5			30					11
LUBOFOSKA® 4-12-12	4	12	12	14			29					9
LUBOFOS® 5-10-25	5	10	25				15					18
LUBOFOS® 12		12	20	2	4,5		6					19
LUBOFOS® PK		14	24	3			6,5					25
GRANULATED SUPERPHOSPHATE		19		25			32,5					14
POTASSIUM CHLORIDE			60									28
LUBOPLON® KALIUM			40	7,5	4		13					29
LUBOPLON® POTASSIUM-SULPHATE			14	15,5	6		48					30
powdery	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn	page
POWDERY SUPERPHOSPHATE		17		24			30					15

FERTILIZERS FOR RAPE	Skład (%)											
granulated	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn	page
LUBOFOS® FOR RAPE	3,5	10	18,5	2	2,5		14,5	0,2				20
LUBOFOS® 12		12	20	2	4,5		6					19
LUBOFOSKA® 3,5-10-20	3,5	10	20	12,5			25,5					10
LUBOFOSKA® 5-10-15	5	10	15	12,5			30					11
LUBOFOSKA® 4-12-12	4	12	12	14			29					9
LUBOFOS® 5-10-25	5	10	25				15					18
LUBOFOS® PK		14	24	3			6,5					25
GRANULATED SUPERPHOSPHATE		19		25			32,5					14
LUBOFOS® CHLORIDE FREE 3,5-10-15	3,5	10	15	2	2,5		27,5					24
POTASSIUM CHLORIDE			60									28
LUBOPLON® KALIUM			40	7,5	4		13					29
LUBOPLON® POTASSIUM-SULPHATE			14	15,5	6		48					30
powdery	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn	page
POWDERY SUPERPHOSPHATE		17		24			30					15

# FERTILIZERS

## INTENDED FOR DIFFERENT KINDS OF CULTIVATION

FERTILIZERS FOR MAIZE		Skład (%)										
granulated	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn	page
LUBOFOS® CORN	5	10	21	2			18,5	0,09	0,2			22
LUBOFOS® 12		12	20	2	4,5		6					19
LUBOFOSKA® 3,5-10-20	3,5	10	20	12,5			25,5					10
LUBOFOSKA® 5-10-15	5	10	15	12,5			30					11
LUBOFOSKA® 4-12-12	4	12	12	14			29					9
LUBOFOS® PK		14	24	3			6,5					25
GRANULATED SUPERPHOSPHATE		19		25			32,5					14
POTASSIUM CHLORIDE			60									28
LUBOPLON® KALIUM			40	7,5	4		13					29
powdery	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn	page
POWDERY SUPERPHOSPHATE		17		24			30					15

FERTILIZERS FOR BEET		Skład (%)										
granulated	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn	page
LUBOFOS® FOR BEET	3,5	10	21	2		2,2	14,5	0,2				21
LUBOFOS® 5-10-25	5	10	25				15					18
LUBOFOSKA® 5-10-15	5	10	15	12,5			30					11
LUBOFOS® 12		12	20	2	4,5		6					19
LUBOFOS® PK		14	24	3			6,5					25
GRANULATED SUPERPHOSPHATE		19		25			32,5					14
LUBOPLON® KALIUM			40	7,5	4		13					29
LUBOPLON® POTASSIUM-SULPHATE			14	15,5	6		48					30
powdery	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn	page
POWDERY SUPERPHOSPHATE		17		24			30					15

# FERTILIZERS

INTENDED FOR DIFFERENT KINDS OF CULTIVATION

FERTILIZERS FOR POTATOES	Skład (%)											
granulated	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn	page
LUBOFOS® FOR POTATOES	3,5	7	25		2,5		19,5	0,2				23
LUBOFOSKA® 3,5-10-20	3,5	10	20	12,5			25,5					10
LUBOFOSKA® 5-10-15	5	10	15	12,5			30					11
LUBOFOS® 5-10-25	5	10	25				15					18
LUBOFOS® 12		12	20	2	4,5		6					19
LUBOFOSKA® 4-12-12	4	12	12	14			29					9
LUBOFOS® PK		14	24	3			6,5					25
GRANULATED SUPERPHOSPHATE		19		25			32,5					14
LUBOFOS® CHLORIDE FREE 3,5-10-15	3,5	10	15	2	2,5		27,5					24
LUBOPLON® POTASSIUM-SULPHATE			14	15,5	6		48					30
powdery	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn	page
POWDERY SUPERPHOSPHATE		17		24			30					15

FERTILIZERS FOR LEGUMINOUS PLANTS	Skład (%)											
granulated	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn	page
LUBOFOS® 12		12	20	2	4,5		6					19
LUBOFOSKA® 4-12-12	4	12	12	14			29					9
LUBOFOSKA® 5-10-15	5	10	15	12,5			30					11
LUBOFOSKA® 3,5-10-20	3,5	10	20	12,5			25,5					10
LUBOFOS® 5-10-25	5	10	25				15					18
LUBOFOS® PK		14	24	3			6,5					25
GRANULATED SUPERPHOSPHATE		19		25			32,5					14
POTASSIUM CHLORIDE			60									28
LUBOPLON® KALIUM			40	7,5	4		13					29
LUBOPLON® POTASSIUM-SULPHATE			14	15,5	6		48					30
powdery	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn	page
POWDERY SUPERPHOSPHATE		17		24			30					15

# FERTILIZERS

## INTENDED FOR DIFFERENT KINDS OF CULTIVATION

FERTILIZERS FOR GRASSLAND	Skład (%)											
granulated	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn	page
LUBOFOSKA® 3,5-10-20	3,5	10	20	12,5			25,5					10
LUBOFOSKA® 5-10-15	5	10	15	12,5			30					11
LUBOFOSKA® 4-12-12	4	12	12	14			29					9
LUBOFOS® 5-10-25	5	10	25				15					18
LUBOFOS® 12		12	20	5	4,5	2,2	10					19
LUBOFOS® PK		14	24	3			6,5					25
GRANULATED SUPERPHOSPHATE		19		25			32,5					14
POTASSIUM CHLORIDE			60									28
LUBOPLON® KALIUM			40	7,5	4		13					29
LUBOPLON® POTASSIUM-SULPHATE			14	15,5	6		48					30
powdery	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	MgO	Na	SO <sub>3</sub>	B	Zn	Cu	Mn	page
POWDERY SUPERPHOSPHATE		17		24			30					15



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