

# ReCulter+

turns SOIL FERTILITY  
into YIELD POTENTIAL



By using 4Calc technology, RECULTER+ is characterised by a hyperactive structure-forming effect on the soil. In addition, the nutrients in the product feed and stimulate the soil microorganisms. The large active surface area of the particles of the four forms of calcium allows rapid, sustained and safe deacidification of the soil.

Thanks to the content of microscopic particles of calcium compounds, RECULTER+ also regulates the micro pH in the rhizosphere of crop roots.

## COMPOSITION

Organic matter	20.43% (in d.m..)
Nitrogen(N)	1.56% (m/m)
Phosphorus (P2O5)	1.37% (m/m)
Potassium (K2O)	0.41% (m/m)
Calcium CaO	22.4% (m/m)

## APPLICATION

Agricultural crops -1-5 t/ha,  
mix with soil to a depth of 20-30 cm

Vegetable crops -1,5-2,5 t/ha,  
shallowly mix with soil before sowing or planting  
vegetables

Orchard crops -1,5-2,5 t/ha, shallow  
mixing into the soil before starting the plantation

A product made with animal by-products (ABPs cat.3)  
safe for humans, animals and the environment.

Positive opinion of the following scientific bodies: IUNG in Puławy, PIWET in Puławy, the Institute of Rural Medicine in Lublin, INHORT in Skierniewice and the Institute of Environmental Protection in Warsaw.

Placed on the market under Decision No. G-1492/23, issued by the Ministry of Agriculture and Rural Development.

DISTRIBUTOR:

# ReCulter+

PRODUKT  
POLSKI

*The only product of that type on the market*



BIOSPIRO

- 1 Contains 4 forms of calcium
- 2 Nourishes with calcium and improves soil fertility
- 3 Combining in-depth scientific knowledge with years of farmers' experience.
- 4 Serves as a soil conditioner and fertiliser

● calcium oxide CaO<sub>2</sub> ● calcium hydroxide Ca(OH)<sub>2</sub> ● calcium carbonate CaCO<sub>3</sub> ● CaCO<sub>3</sub> calcium calcite

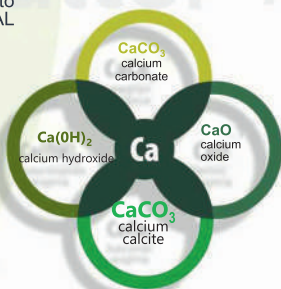


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turns SOIL FERTILITY into  
YIELD POTENTIAL

The 4 Inch technology is a  
combination of four forms of  
calcium in one product:

- calcium oxide CaO<sub>2</sub>
- calcium hydroxide Ca(OH)<sub>2</sub>
- calcium carbonate CaCO<sub>3</sub>
- CaCO<sub>3</sub> calcium calcite



Combining in-depth scientific knowledge with years of farmers' experience.

RECULTER+ is a unique soil conditioner. It contains hygienised animal by-products (ABPs). It improves soil fertility, water holding capacity, organic matter (humus) content and provides plants with the valuable nutrient - calcium.

The large active surface area of the calcium calcite particles allows rapid, sustained and safe deacidification of the soil.

According to a study by the University of Life Sciences in Lublin, the agent increased carrot yields by 6.3%, cabbage yields by 9.4%, apple tree yields by 13% and sugar beet yields by 15%, with a 20% reduction in mineral fertilisation, a significant reduction in nitrate and nitrite content in the yields of the crops studied.

Percentage of  
soils with  
necessary and  
needed liming  
demands  
(according to  
KSChR)

20-40
41-60
61-80



Calcium is one of the most valuable elements, it  
regulates soil processes and it is an important  
nutrient for plants.

## Soil

- increases the pH
- increases biological activity
- promotes the formation of aggregates
- promotes mineralisation of organic matter
- accelerates post-harvest residue decomposition
- promotes biodiversity in soil

## Plant

- increases the rigidity and thickness of the cell walls
- increases tolerance to low temperatures
- involved in metabolic processes
- stimulates nitrogen utilisation
- promotes growth and development of the root system
- increases resistance to drought stress

Influence of pH on  
nutrient  
assimilation and  
soil biological life  
(Holubowicz-Kliza, 2006)

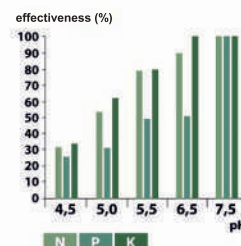


## Principal groups of microorganisms

## Free nitrogen assimilating bacteria

Microorganisms	Optimum pH level	Lower pH tolerance limit
fungi	4.0-5.0	1.5-2.0
ammonifiers	6.2-7.0	-
denitrifiers	7.0-8.0	-
nitrifiers	6.5-7.2	4.8-5.0
P triggering	6.5-7.5	-
SYMBIOTIC		
alfalfa	6.8-7.2	4.9-5.0
clover	6.8-7.2	4.2-4.7
pea	6.5-7.0	4.0-4.5
vetch	6.5-7.0	4.0-4.5
lupin	5.5-6.5	3.2-3.5
seradella	6.5/5.5	3.2-3.5
NON-SYMBIOTIC		
Azotobacter	6.5-7.5	5.5-6.0
Clostridium pasteurianum	5.0-7.0	4.7-5.0

Efficiency of macronutrient  
uptake with increasing pH  
(Holubowicz-Kliza, 2006)



Optimum pH for soil microflora development  
(Holubowicz-Kliza, 2006)

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