

**Innovative  
phosphate  
fertilizers** for a  
sustainable  
agricultural.



**BIF  X**

# Bifox-20

## BIFOX-20 THE BEST PHOSPHOROUS SOURCE FOR YOUR EXTENSIVE CROPS AND PRAIRIES.

BIFOX – 20 is a natural phosphate fertilizer for direct application, with high reactivity and agronomic efficiency, and suitable for organic agriculture that supplies to the soil mainly phosphorus (P) and calcium (Ca).

### Advantages

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High reactivity.

High percentage of assimilable phosphorus.

High percentage of calcium.

High residual effect.

Does not acidify the soil.

Low carbon footprint.

Reduces fertilization cost.

Contains potassium, sulfur, magnesium, zinc and boron.

Acts as a calcareous amendment: increases soil pH.

Gradual release phosphorus: reduces nutrient losses due to fixation to the soil and surface runoff.

Maximum Relative Agronomic Efficiency (RAE) compared to soluble fertilizers.

Does not produce phytotoxic effect on germinating seeds or growing seedlings.

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# Product Presentation

**Granulometry:** powder with 95% of the mass passing Tyler Mesh No. 100 mesh (particle size less than 150 microns).

**Packaging:** BIFOX-20 is sold in bulk or in 1,000 kg big bags



## Use recommendations for prairies.

Broadcast Bifox-20 preferably in periods of sufficient humidity (natural or irrigation), in prairies after a mechanical cutting or grazing, so that the fertilizer is rapidly incorporated into the soil and does not remain on the vegetation.

## Use recommendations for extensive crops

BIFOX-20 can be applied in total coverage before sowing, with or without mechanical incorporation. The mechanical incorporation facilitates phosphorus release to the soil.

Alternatively, it can be applied in the furrow with a seeder equipped with a separate fertilizer storage box and distributors suitable for applying powders.



# Application equipment

## Broadcast:

- Powder application equipment (lime application equipment).
- Fertilizer disk spreaders.
- Pneumatic fertilizer spreaders with powder distribution kit.

## Incorporated into the ground:

- With disk fertilizers suitable for powder dosage.
- Seeder equipment with fertilization storage box, suitable for applying powders.

# Product specifications and physical properties

Total phosphorus	(P <sub>2</sub> O <sub>5</sub> ) 20 +/-2%	Potassium	(K <sub>2</sub> O) 0,84%
P soluble in ammonium citrate	(P <sub>2</sub> O <sub>5</sub> ) 5-7%	Magnesium	(MgO) 0,95%
P soluble in citric acid 2%	(P <sub>2</sub> O <sub>5</sub> ) 9-10,5%	Sulfur	(S) 1,20%
P soluble in 2% formic acid	(P <sub>2</sub> O <sub>5</sub> ) 9-11%	Iron	(Fe <sub>2</sub> O <sub>3</sub> ) 2,30%
Calcium	(CaO)30%	Sodium	(Na <sub>2</sub> O) 2,20%
Bulk density	1,26g/cm <sup>3</sup>	Silicon	(SiO <sub>2</sub> ) 32,0%
Moisture content	5%	Copper	(Cu) 30ppm
Product Presentation	95% under mesh 100	Manganese	(Mn) 12 6 ppm
Heavy metals	As, Cd, Pb, Hg, Cr, Ni, Co, Se < 0,03%		

# Use Recommendations

**Crop Types:** BIFOX-20 has been tested in both extensive crops (wheat, barley, corn, soybeans, sunflowers, rapeseed), intensive crops, as well as in prairies.

**Soil types:** BIFOX-20 maximizes its efficiency in acidic soils of pH <6.5 which allows rapid dissolution and prolonged phosphorus and calcium nutrients supply and availability for crops.

**Compatibility with other fertilizers:** It can be applied either pure or in blends with other fertilizers.

**Storage:** It is recommended to store in a dry place. As Bifox-20 is a natural mineral insoluble in water, it has no expiration date and does not lose its properties if it gets wet.

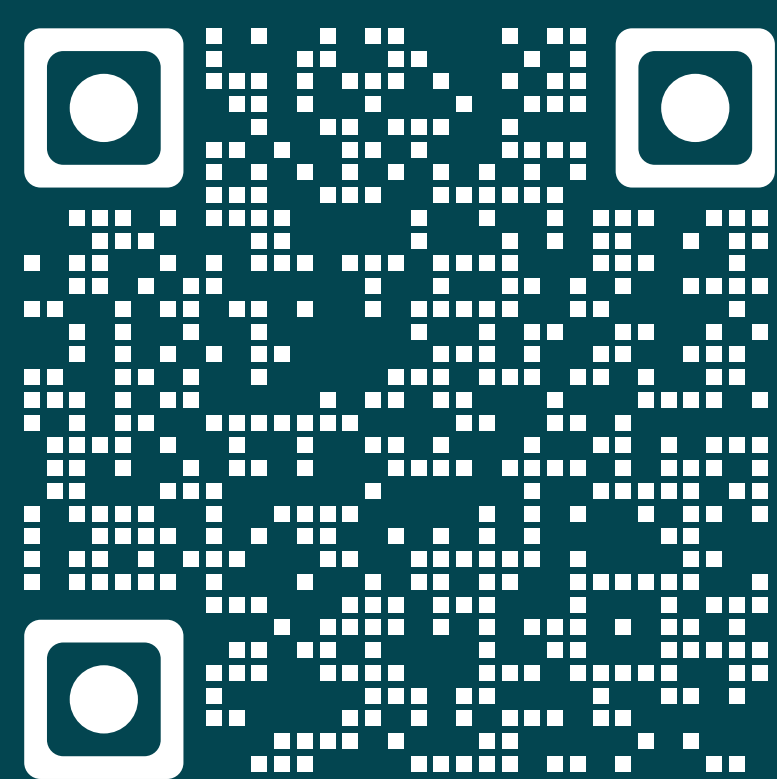
## Recommended application rates

Crop type	Soils with P content under 5ppm	Soils with P content between 5 ppm and 15 ppm	Soils with P content above 15 ppm
Prairies	900 to 1,200 kg/ha of Bifox-20 (*)	600 to 800 kg/ha of Bifox-20 (*)	300 to 500 kg/ha of Bifox-20 (**)
Other crops	Fertilization rate based on specific phosphorus requirements for each crop		

**Note:** The indicated application rates are only a reference. Each farmer must determine their optimal rate, according to the specific conditions of their production system, after soil analysis and recommendation of competent professional.

(\*) Recommended application rate to raise phosphorus content in soil to about 15-20 ppm over a period of 3 to 4 years.

(\*\*) Corresponds to an application rate to maintain a stable phosphorus content in soil considering extraction by mechanical cutting and/or grazing.



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