



Knowledge grows

BOLIFOR[®] MGP+

Magnesium Phosphate - Feed Grade

Sales specification

Product Properties	
Phosphorus (P)	13.5%
Relative solubility of phosphorus	
- In 2% citric acid	98%
- In alkaline ammonium citrate	96%
Magnesium (Mg)	23.5%
Sulphur (S)	2%
Calcium (Ca)	1.5%
pH	7-8
Moisture	< 4,5%

Physical Properties	
Appearance	Fine granules >90% within 0.2-1.5 mm, guaranteed when delivered from factory.
Bulk density kg/m ³	850-1000
Water activity, aw	< 0.70

Identification

Chemical Formula : $MgHPO_4 \times 3H_2O$
CAS No. 7757-86-0

Inorganic feed material according to Regulation (EC) No 767/2009 of the European Parliament and of the Council and Commission Regulation (EU) No 68/2013.

Description

A unique feed grade combination of magnesium and phosphorus produced by means of reacting phosphoric acid and a magnesium source in a granulator at precise conditions.

The production process and selected raw materials, of exclusively mineral origin, ensure a product with high phosphorus content and a level of undesirable substances well below that stipulated by EU feed legislation.

BOLIFOR MGP+ appears as off-white to grey granules. The product is highly soluble in diluted acids. BOLIFOR MGP+ is odorless and has a neutral taste

Special advantages

BOLIFOR MGP+ is an excellent source of magnesium and phosphorus, containing some sulphur. It can be included in concentrates, complete feed, mineral supplements and other mineral feed applications to prevent magnesium and phosphorus deficiencies in mainly cattle and horses and other animals.



Recommended use/applications

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Quality check references

Total phosphorus (P) extraction	Comparable with Regulation (EC) No 2003/2003 method 3.1.1
In 2% citric acid	Regulation (EC) No 2003/2003 method 3.1.3.
In alkaline ammonium citrate 98%	Regulation (EC) No 2003/2003 method 3.1.5.1
Phosphorus Determination	Comparable with Regulation (EC) No 2003/2003 method 3.2
Total magnesium (Mg) extraction and determination.	Comparable with Regulation (EC) No 2003/2003 method 8
pH	1% solution, in water
Ash insoluble in 3N HCl	Directive 71/250/EEC method 6
Moisture (mechanical free water)	Acetone wash, ambient temperature

Undesirable substances

Undesirable substances	Standard specification	BOLIFOR MGP	Method of analysis
Fluorine (F)	Max. 2 g/kg	< 2 g/kg	ISE
Arsenic (As)	Max.10 mg/kg	< 2 mg/kg	ICP-MS
Cadmium (Cd)	Max. 10 mg/kg	< 0.5 mg/kg	ICP-MS
Lead (Pb)	Max. 15 mg/kg	< 2 mg/kg	ICP-MS
Mercury (Hg)	Max. 0.1 mg/kg	< 0.05 mg/kg	ICP-MS
Dioxins (PCDD/F(BEQ))	Max. 0.75 ng/kg	< 0.2 ng/kg	GC-MS/MS
Dioxins + dioxin-like PCBs (PCDD/F and dl PCBs (BEQ))	Max. 1.0 ng/kg	< 0.3 ng/kg	GC-MS/MS

*Method of Test: Method 3.2 – EC Regulation No: 2003/2003/EC.

Classification, labelling and packaging

The product is not classified as hazardous according to EU regulations. Labelling conforms to Regulation (EC) No 767/2009 of the European Parliament and of the Council and to Commission Regulation (EU) No 68/2013.

Packaging available in 25, 1000 kg big bag and bulk.

Handling and storage

BOLIFOR MGP+ should be stored indoors in a dry and cool place in properly sealed packaging. When handled and stored according to instructions the shelf life is three years.

Transport and transport regulation

Transported on road, rail and by sea. Not classified as dangerous goods.

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 Inorganic Feed Phosphates

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