



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

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.

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.

Yara Animal Nutrition
www.yara.com/animal-nutrition
animal.nutrition@yara.com



Yara, Animal Nutrition is part of the Cefic Sector Group
Inorganic Feed Phosphates

LEGAL NOTICE - Yara International ASA and/or its group companies (collectively "Yara") make no express or implied warranty or representation concerning the accuracy or completeness of this document or the information contained in it. Information contained in this document is to the best of Yara's knowledge correct and accurate on the date of issuance. Any information provided is merely intended to serve as guidelines for the appropriate use, handling and storage of our products and may not be deemed as a guarantee or indication of quality, or serve as a basis for liability towards Yara in any way whatsoever. Any drawings, descriptive matter or illustrations contained in this document are provided for the sole purpose of giving an approximate idea of the products described in them. This document and any information contained in it shall remain the property of Yara. No rights, including, but not limited to, intellectual property rights, in respect of this document are granted to any recipient. Yara reserves the right to adjust and revise this document at any time. Please refer to our General Terms and Conditions for more information on legal matters.

Version 12/2021

