



Knowledge grows

BOLIFOR® MGP+

Magnesium Phosphate - Feed Grade

Sales specification

Product Properties	
Phosphorus (P)	13,5%
Relative solubility in	
- 2% citric acid	98%
- neutral ammonium citrate	96%
Magnesium (Mg)	24%
Relative solubility in	
- neutral ammonium citrate	95%
Calcium (Ca)	1%
Sulphur (S)	2%
pH	7-8
Ash insoluble in HCl 3N	4.5%
Moisture (mechanical free water)	< 1%

Physical Properties	
Appearance	Fine granules >90% within 0.2-1.5 mm, guaranteed when delivered from factory.
Bulk density kg/m ³	850-950
Water activity	aw < 0.70

Identification

Chemical Formula : $\text{MgHPO}_4 \times 3\text{H}_2\text{O}$
CAS No. 7757-86-0
EINECS No. 231-823-5

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

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

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 digestibility and a level of undesirable substances well below that stipulated by EU feed legislation.

Nutritive value

Trial data show significant differences in phosphorus digestibility between and within the different generic types of inorganic feed phosphates. BOLIFOR® Magnesium phosphates are regularly evaluated in terms of solubility. Results show consistently that BOLIFOR® Magnesium sources are superior in solubility and consistency.



Recommended use/applications

The excellent quality makes BOLIFOR® MGP+ a preferred source of magnesium and phosphorus in concentrates, complete feed, mineral supplements and other mineral feed applications to prevent magnesium and phosphorus deficiencies in mainly cattle and horses but also pigs, poultry and all other animals.

Quality check references

Phosphorus:	
Extraction:	
- total	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	Regulation (EC) No 2003/2003 method 3.1.5.1
- in water	Regulation (EC) No 2003/2003 method 3.1.6.
Determination	Comparable with Regulation (EC) No 2003/2003 method 3.2
Calcium:	
Extraction:	
- total	Comparable with Regulation (EC) No 2003/2003 method 3.1.1.
Determination	Comparable with Directive 71/250/EEC method 3.
pH	1% solution, in water
Ash insoluble in 3N HCl	Directive 71/250/EEC method 6.
Moisture (mechanical free water)	Acetone wash, ambient temperature

MGP (macrominerals requirements for ruminants)

	Requirements ^a % of DM			
	Mg	P	Ca	Na
Lactating cow (680 kg BW, 35 kg milk/day)	0,19	0,35	0,61	0,23
Beef stock 400kg 1.4kg gain/day	0,10- 0,20	0,12- 0,35	0,20- 0,72	0,12
Transition cow	0,35- 0,40	0,35	1	

a) NRC

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 kg, 50 kg, 1000 kg 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 bolifor@yara.com



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

The information above is intended to serve as guidelines and does Not constitute a guarantee. We reserve the right to make changes. Valid from 2014-05-01.

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 01/2017

