



Knowledge grows

BOLIFOR® MGP

Magnesium Phosphate - Feed Grade

Sales specification

Product Properties	
Phosphorus (P)	14,5%
Relative solubility in	
- 2% citric acid	98%
- neutral ammonium citrate	96%
Magnesium (Mg)	25,5%
Relative solubility in	
- neutral ammonium citrate	95%
Calcium (Ca)	1%
pH	7-9
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 : $MgHPO_4 \times 3H_2O$
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 selected raw materials, of exclusively mineral origin, ensure 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

BOLIFOR® MGP is an excellent 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

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.

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	
Transition cow	0,35- 0,40	0,35	1	0,12

a) NRC

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

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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.

