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BOLIFOR[®] MGP+

Magnesium Phosphate Feed Grade

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 242/2010.

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 selected raw materials, of only mineral origin, and production process ensure a product with good phosphorus digestibility and a level of undesirable substances well below that stipulated by EU feed legislation.

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

SPECIFICATION

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%

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 cattle, pigs, poultry and all other animals.

SPECIAL ADVANTAGES

- Granulated and free flowing which makes the product less dusty and easier to handle than commercial MgO
- Highly palatable compared to commercial MgO and does not have a laxative effect
- Superior solubility to other commercial MGP sources (Jensen test, 8 hrs)
- Considerably improved relative water solubility of P
- Superior chemical solubility gives BOLIFOR[®] MGP+ an excellent biological availability for both Mg and P
- Source of sulphur for rumen microflora
- Minimum level of undesirable substances
- Consistent quality

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	a _w < 0.70

UNDESIRABLE SUBSTANCES*

EU STANDARDS

Fluorine (F)	max 0.2%
Arsenic (As)	max 10 mg/kg
Cadmium (Cd)	max 10 mg/kg
Lead (Pb)	max 15 mg/kg
Mercury (Hg)	max 0.1 mg/kg
Dioxins (WHO-PCDD/F-TEQ)	max 0.75 ng/kg
Dioxins + dioxin-like PCBs (WHO-PCDD/F-PCB-TEQ)	max 1.0 ng/kg

* Conforms to current EU legislation.

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 neutral ammonium citrate	Regulation (EC) No 2003/2003 method 3.1.4
Determination	Comparable with Regulation (EC) No 2003/2003 method 3.2.

Magnesium:

Extraction:

in neutral ammonium citrate	Comparable with Regulation (EC) No 2003/2003 method 3.1.4. Determination ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry)
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pH	1% solution, in water
Ash insoluble in 3N HCl	Directive 71/250/EEC method 6.
Moisture (mechanical free water)	Acetone wash, ambient temperature

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 242/2010.

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
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Inorganic Feed Phosphates



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