



Knowledge grows

BOLIFOR[®] MAP

Mono-Ammonium Phosphate - Feed Grade

Identification	
Chemical Formula	NH ₄ H ₂ PO ₄
CAS No.	7722-76-1
EINECS No.	

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 phosphorus and nitrogen produced by means of reacting phosphoric acid and an ammonia source in a granulator at precise conditions. The selected raw materials, of only mineral origin, and a special production process ensure a product with excellent phosphorus digestibility and a level of undesirable substances well below that stipulated by EU feed legislation.

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

Specification	
Phosphorus (P)	26 %
Relative solubility in	
2% citric acid	99%
neutral ammonium citrate	98%
Nitrogen (N)	10%
Calcium (Ca)	<1 %
pH	4
Ash insoluble in HCl 3N	4.5%
Moisture (mechanical free water)	< 1%

Recommended use/Applications

The excellent quality makes BOLIFOR[®] MAP a preferred source of phosphorus in concentrates, complete feed, mineral supplements and other mineral feed applications. It is a superior source of P which is vital to optimize phosphorus nutrition in fish and cattle.

Special Advantages

- High relative water solubility of P
- Superior chemical solubility gives BOLIFOR[®] MAP an excellent biological availability for P
- 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.
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 bulk.

Handling and storage

BOLIFOR® MAP 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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The information above is intended to serve as guidelines and does not constitute a guarantee. We reserve the right to make changes. Valid from: 2015-10-01. Replaces all previous data sheets. English

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