



Knowledge grows

# KIMTRAFOS 12 GRANDÉ

## Phosphate-Trace Mineral Supplement (V18670)

### Sales specification

Product Properties	Typical Analysis
Total Phosphorus (P)	12.3 % (min)
Calcium	19 % (max)
Copper	300 mg/kg
Manganese	1200 mg/kg
Zinc	1200 mg/kg
Iodine	30 mg/kg
Cobalt	6 mg/kg
Selenium	6 mg/kg
pH	9.0 – 9.3

Physical Properties	
Appearance	Light brown granules
Particle sizes	0.2 – 1.0 mm
Bulk Density (untamped)	960 - 1200 kg/m <sup>3</sup>
Chemical solubility and biological availability	Good

Undesirable Elements	Act 36/1947	KIMTRAFOS 12 GRANDÉ Values
Fluorine (F)	Max 0.11 %	Max 0.11 %
Cadmium (Cd)	Max 6 mg/kg	Max 3 mg/kg
Aluminum (Al)	Max 20 mg/kg	Max 20mg/kg

### Identification

#### Chemical Substances

Monocalcium phosphate  
 Molasses  
 Condensed molasses solubles (CMS)  
 Salt  
 Trace minerals

#### Synonyms:

P12, Wet season phosphate concentrate

### Description

KIMTRAFOS 12 GRANDÉ is a phosphate-trace mineral concentrate, which contains the essential trace minerals in the correct ratio to phosphorus.

KIMTRAFOS 12 GRANDÉ is produced by blending Monocalcium phosphate (MDCP) with molasses by-products, calcium carbonate and specific amounts of trace minerals.



## Nutritive value

KIMTRAFOS 12 GRANDÉ is produced from a high quality monocalcium phosphate (MDCP). Reputable independent research institutes regularly evaluate the digestibility of this MDCP in monogastric species.

Trial results consistently demonstrate that the MDCP in KIMTRAFOS 12 GRANDÉ has a high bioavailability, comparable with the top of the range inorganic feed phosphates. Trial reports and digestibility coefficients are available on request.

## Recommended use / application

This product is recommended for use in concentrates, compound feeds, mineral feeds and free choice supplements for cattle, sheep, goats, horses and game.



## Quality check references

<b>Total Phosphorus</b>	AOAC Official Method of Analysis, 1990, 15th Ed. AOAC Method 957.02 B9e.
<b>Phosphorus solubility: In 2% citric acid</b>	Methods of the Fertilizer Chemists' Liaison Committee, South Africa Method No. Fd-03: 1991 AOAC 958.01, or 969.02C or 962.02C. (Directive 77/535/EEC, method 3.1.3)
<b>In alk amm citrate</b>	Petermann method: 650C (Directive 77/535/EEC, method 3.1.5)
<b>Total calcium</b>	AOAC Official Methods of Analysis, 15th Ed. 945.03 Ca (Acid-Soluble) in Fertilizers Titrimetric Method I Final Action
<b>pH</b>	1 % solution
<b>Moisture (free moisture)</b>	(AOAC) Official Methods of Analysis, 1990, 15th Ed. 965.08 Vacuum-Desiccation Methods First Action 1965 – Final Action 1974.
<b>Undesirable elements</b>	AOAC Official Methods of Analysis, 15th Ed., Cd, 974.27, As, 957.22.

## Classification, labelling and packaging

KIMTRAFOS 12 GRANDÉ is packed in 50kg woven polypropylene (WPP) bags with a polyethylene inner liner.

## Handling and storage

KIMTRAFOS 12 Grande must be stored under cover in a cool dry place to ensure a shelf life of at least 3 years

## Transport and transport regulations

KIMTRAFOS 12 GRANDÉ is non toxic and not classified as hazardous under transport regulations.

Detailed Safety Data Sheets are available on request from local agents or the manufacturer.

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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