



100% NATURAL ORGANIC PHOSPHORUS FERTILISER & SOIL CONDITIONER

Guano Gold-Kwik Start® is a valuable resource which reforms the structure and function of soil, as well as being one of the world's most valuable phosphorus fertilisers. There is no chance of salinization and damage to plant growth by Guano Gold-Kwik Start®, so it is a very safe product to use.

Guano Gold-Kwik Start® is composed of dicalcium-phosphate layers which have been generated by interaction of the remains of coral, sea birds, fish and seaweed, as the land gradually rose over many thousands of years.

Guano Gold-Kwik Start® contains coral-calcium, which is a chief component of coral reefs and phosphoric and silicic acids which come from the droppings of sea birds and the remains of fish and seaweed, together with various minerals which are shown in our comprehensive analysis.



PRODUCT ANALYSIS

	% W/W
Total Phosphorus (P)	13.6%
Phosphorus (P) (citrate soluble)	10.9%
Phosphorus (P) (citrate insoluble)	2.7%
Calcium (Ca)	32.9%
Silica (Si)	23.8%
Zinc (Zn)	150ppm
CEC	129Me/100h
Cadmium (Cd)	2.08ppm

Features & Benefits

- 80% Citrate Soluble P.
- Fast & slow release of Phosphorus.
- Full range of trace elements.
- Bulk Density 1.5MT per M³.
- Granulated (2-5mm) easy to handle & spread through all planters air-seeders, combines & stool splitters.
- 30m Spread Rate.
- Minimal cadmium & mercury content.
- Suitable for blending with all other types of fertiliser (except urea).
- Performs very well agronomically.
- Environmentally Friendly.
- Natural Organic Product.
- Australian Organic Registered Farm Input 309.
- No odour Organic fertiliser.



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for & on behalf of;

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TECHINICAL & SERVICE

The combination of the available citrate soluble / fast and slow release of Phosphorus, is a unique Madura Guano Gold® feature. This, combined with calcium, silica, high CEC, organic carbon and many other trace elements in Madura Guano Gold-Kwik Start®, is now recognised and as such, farmers and growers are enjoying excellent farming fertiliser results.

Madura Guano Gold-Kwik Start® is one of the best fertiliser products available on the market, it has been successfully applied and given excellent results on acid, neutral and alkaline soils across Australia. In order to achieve these results, it is extremely important for farmers and growers to embrace the real importance of working towards creating a balance in their soils and adding the correct cost effective nutrient inputs.

Guano Australia is very active in supporting customers with independent soil testing, backed up by trained agronomists, horticulturists and viticulturists providing a full range of technical advisory services in addition to developing the best guano fertiliser products for sale Australia-wide.



CUSTOM BLENDING

In order to meet customer demand, Madura Guano Gold-Kwik Start® organic fertiliser is successfully included as an important component in a full range of organic, bio-dynamic and conventional custom blends.

With ever changing markets, customer needs for chemical free / low chemical inputs, Madura Guano Gold-Kwik Start® is now meeting these huge pure farming fertiliser market niches.



BENEFICIAL INFORMATION ON SILICA

Fertilisers that are high in soluble silica and that silica is in the form of a Monosilica acids, such as Madura Guano Gold-Kwik Start® and Madura Guano Sulphur Gold®, react in the soil solution to release Si(OH)4, which is then absorbed onto either existing free iron, calcium or aluminium, or into existing insoluble Phosphorus compounds such as Calcium (CaHPO4), Aluminium (2Al (H2PO4) and Iron (2FePO4).

This has the effect of;

Transforming slightly soluble Phosphates into mobile forms that are more plant available.

The binding of elements that are hostile to phosphorus allowing free phosphorus to be plant available for longer.

ALL FACTS SUGGEST that Si-rich materials can be used for reducing - "P" - "TIE UP" and keep applied PHOSPHORUS in plant available form.

$$\text{CaHPO}_4 + \text{Si (OH) } 4 = \text{CaSiO}_3 + \text{H}_2\text{O} + \text{H}_3\text{PO}_4$$

Calcium / Phosphate + Silica Acid = Calcium Silicate + water + Phosphate

$$2\text{Al (H}_2\text{PO}_4) 3 + \text{Si (OH) } 4 + \text{H} = \text{Al}_2\text{Si}_2\text{O}_5 + \text{SH}_3\text{PO}_4 + 3\text{H}_2\text{O}$$

Aluminium Phosphate + Silica Acid + Hydrogen = Aluminium Silicate + Phosphate + Water

$$2\text{FePO}_4 + \text{Si (OH) } 4 + \text{H} = \text{FeSiO}_4 + 2(\text{H}_3\text{PO}_4)$$

Iron Phosphate + Silica Acid + Hydrogen = Iron Silicate + Phosphate

SILICA & K

Silicon Fertilisers exhibit very good absorption properties; owing to this, leaching of Potassium from the surface horizon was reduced by application of Silicon. Therefore, Madura Guano Gold-Kwik Start® blended with either MOP or SOP or KMS will allow for maximum availability of both P and K in the soils that are high in Fe, Al or Ca. The interaction of Silica allows the blend to work in both acid and slightly alkaline soils



APPLICATIONS

- Bananas
- Broadacre, cereals and other winter / summer crops
- Citrus and tropical fruit
- Cotton
- Forestry
- Fruit & vegetables
- Olives
- Ornamental
- Pasture, beef, dairy and sheep
- Rice
- Sugar
- Turf
- Viticulture
- DPI Approved for Dry Lick and Stock Feed use

DI CALCIUM "P" FOR DRY LICK FOR CATTLE



Both the granular and powder forms of Madura Guano Gold-Kwik Start® are used in stock feeds.

AVAILABLE as Granulated 2-5mm and Powder 80-100 micron.

