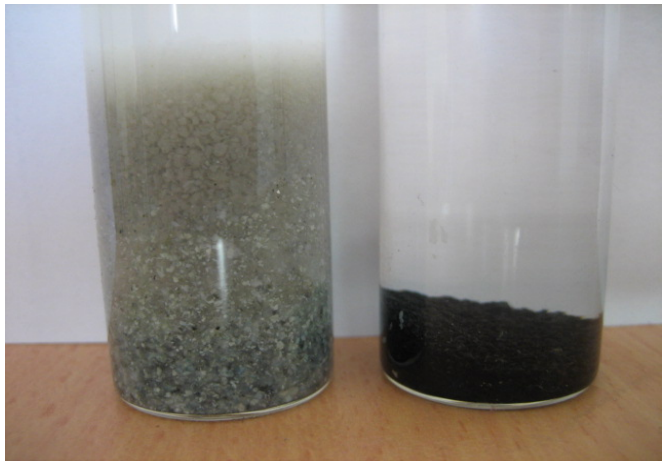
Acid soluble, what does this mean?

FCMP is acid soluble not water soluble and remains in the top soil for sustained controlled release of plant-available nutrients. A soil that has a supply of free acid (hydrogen ions) is a suitable candidate for FCMP applications. The product will reduce acidity quickly and with successive applications.

The left photo below demonstrates the acid solubility of FCMP 0-8-0 in a 2% citric acid solution. Shown on the right is FCMP 0-8-0 in water, demonstrating its insolubility.



Dissolved FCMP 0-8-0 in citric acid with a Silicate "FLOC" (left) and insoluble in water (right)

How is FCMP spread?

FCMP is easily stored, is not water soluble and does not coagulate in bags. FCMP 0-8-0 can be spread through any spinner or agitator and is non-corrosive to metal and plastic. The granular pellet FCMP G 0-7-0 can also be spread through air seeders and suitable aircraft. FCMP is backed with qualified agronomic support & industry accreditations.

Where do I buy FCMP?

FCMP 0-8-0 and FCMP G 0-7-0 are available through TNN AUSTRALIA. . Please contact TNN AUSTRALIA if you have any queries. The product is labeled to the latest industry standard and requirements and a safety data sheet is available on request. Product is shipped to all major ports to reduce freight costs.

Key FCMP attributes

FCMP is a controlled release sustainable fertiliSer that is plant-available and remains in the soil.

High efficiency nutrients	95% plant-available
Low leaching potential	90% less losses
Slow release	Acid not water soluble
Soil conditioning	Silicate content retains moisture
Lock-up resistance	Resists iron and aluminium absorption
Easy storage	Store anywhere with access
Liming ability	Kg for Kg, the same as ag lime
Highly available silicates	Assists with plant nutrition, strength and pest damage
Animal metabolic issues	Grass tetany and milk fever incidence is reduced
Pasture weed spectrum	Improves over time

Make the change to FCMP and witness the clear sustained benefits in your pasture, crop and animal production!

Contact –
Bill Munton
181 Woodberry Road
Millers Forest, 2324
0407252318
bill@tnnaustralia.com

TNN AUSTRALIA

TNN AUSTRALIA

0-8-0, G 0-7-0

It's time for a change!

Do you have...

- **Acid soil**s? ✓
- **Soils of high leaching potential**? ✓
- **Nutrient "Lock-up" issues?** ✓
- **Un-productive pastures and/or crops?** ✓
- **Sunday soils?** ✓

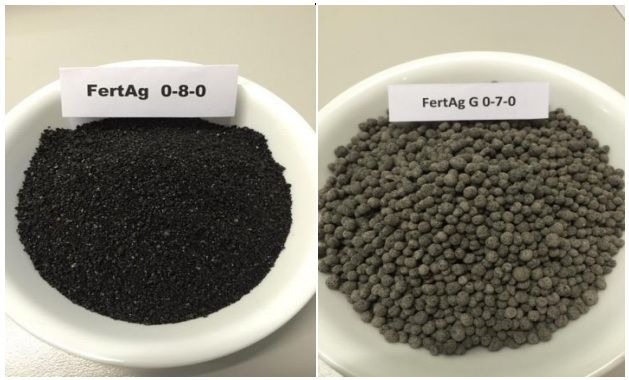
...then **FCMP 0-8-0 or FCMP Granular ("G") 0-7-0** is the answer for long lasting, reliable plant and soil productivity.

FCMP provides an easy flowing plant-available fertiliser and soil mineraliser with useful micro nutrients. It is not water soluble and has reduced leaching and run-off. Available as a "sand" (FCMP 0-8-0) or in granular form (FCMP G 0-7-0).

Bring back your soil quality and unlock your soil's potential with a fertiliser that remains in the soil while providing sustained plant-available nutrition.

What is the FCMP product?

A member of the thermo-calcium magnesium phosphates that provide 95% plant-available nutrients when used in acid soils. It is manufactured at high temperature from naturally occurring minerals and because there is no chemical change it is suitable for use in both organic and conventional agriculture. Used widely in Asian, South American and European agriculture the product is applied to 31 million hectares globally, every year! Known in the industry as FMP it is a very efficient fertilizer as it is almost fully available and does not leach away like soluble fertilizers.



How is the FCMP product different?

Acid soils lock up many nutrients in soluble fertilizers. FCMP is acid soluble but not water soluble. It reduces soil acidity to release nutrients. It has the same neutralising ability as ag lime. FCMP is specifically suited to acid soils (pH <6.5) and is easily stored and spread.

FCMP leaches up to 20 times less than soluble P after heavy rain and remains in the root zone feeding plants. The released silicates in FCMP hold water and nutrient and assist 'freeing up' tied up nutrients. Further silicates in FCMP exchange locked up nutrients from the soil releasing them to the crop/pasture. It has a sustained release of nutrients from a few hours to up to 12 months. It resists lock-up in aluminum and iron acid soils and can be used to great effect in high P sorption soils while reducing aluminium toxicities.

Insoluble in water yet fully available, FCMP greatly reduces unnecessary contamination of creeks, rivers and reef systems.

Why should I use the FCMP product?

If you have acid soils and are seeing less and poorer pasture or crop growth after conventional fertilising, chances are your acid soils are locking up many nutrients and there is little plant-available nutrient. If your pastures or crops do not cope well with dry periods or yields are not as good as they should be, then it is time for a change to FCMP; a longer lasting, plant-available nutrient supply, and a product that holds and acts as a water store near the soil roots. FCMP may be spread pre-plant or as a basal application in a crop, and side- or top-dressed in pasture at any time.

Typical FCMP 0-8-0 product analysis:

Element	Content
Phosphorus (P)	8%
Calcium (Ca)	23%
Magnesium (Mg)	12%
Silicon (Si)	11%
Iron (Fe)	3%
Potassium (K)	0.2%
Sulphur (S)	0.2%
Cobalt (Co)	38 ppm
Copper (Cu)	10 ppm
Zinc (Zn)	7 ppm
Manganese (Mn)	0.4%
pH	8.3
Citrate solubility	95%
Cadmium (Cd)	< 0.5mg Cd /kg P
Fluorine (F)	1.5g / kg P

What can I expect from the FCMP product?

Greater product efficiency from FCMP in long lasting plant nutrient availability with very low loss from leaching or runoff. Therefore, what you apply stays in the soil providing continuous availability of essential nutrients when plants most need it and without the tie-up processes that occur when soluble phosphate products are used. FCMP will hold moisture and minerals in the root zone so expect better plant growth and yields with a longer growth season.

FCMP reduces pasture weed spectrums, leading to improvements in soil nutrient balances.

What rates should be used with the FCMP product?

Rates will always depend on your soil test results, rainfall, pasture, crop requirements and soil type. As a guide in improved pastures in NNSW, rates from 150-200kg/ha have provided noticeable and sustained results in increased plant production. These rates have seen significant reductions in grass tetany and milk fever in cattle and sheep.

FCMP reduces incidence of grass tetany and milk fever in cattle and sheep.

Treated with FCMP 0-8-0

Untreated has higher weed load

Will FCMP be readily available to crop or pasture?

The product is acid soluble and starts to release nutrients within hours of application depending on moisture and soil pH and continues to work for up to 12 months after application. Soluble phosphate fertilisers become ineffective in acid soils generally within 2-3 months. Plant roots that come in contact with FCMP will not be burned. Roots will be able to access nutrients directly by using root exudates to digest the product.

FCMP applied (left) & silicates strengthen crop stems - lodging occurs where no FMP applied (right)

FCMP continues to release nutrients for up to 12 months after application