

## NutraFeed Soluble Fertilisers

NutraFeed soluble fertilisers are a range of NPK + trace element formulations, designed to suit different crop stage nutrition requirements. Each blend in the range provides a unique ratio of NPK plus trace element support to supply a multi-nutrient hit that improves plant development and growth at critical stages. NutraFeed soluble fertilisers are suitable for both fertigation and foliar application situations. All NutraFeed soluble fertilisers are blended in Australia using local and imported raw materials. While there is a standard NutraFeed soluble product range that is stocked in warehouses, we are also able to develop and manufacture custom blends to suit individual customer's crop nutrition requirements. All NutraFeed soluble fertilisers contain these characteristics:

- Blended in Australia to guarantee consistent quality and analysis integrity
- Contains Lo Biuret Urea, which is safer on plants than standard Urea
- Contains trace elements in EDTA chelated form maximizing plant uptake and compatibility
- Chloride free formulations
- Contains anti-caking material to improve shelf life

## Solubility

Highly soluble ingredients are used in NutraFeeds. At a water temperature of 20° C, 25kg of NutraFeed is able to dissolve in 100 Litres of water (25% w/v). Note the degree of solubility decreases with lower temperatures (i.e. 1.5 kg at 10° C). Water quality plays an important role as the more dissolved salts in solution, the less room there is for the NutraFeed to dissolve. If the water contains salts then NutraFeed can only be added up to an Ec of 2ds/m. For every 25kg of product added to the mixing tank, expect a volume increase of about 15 litres.

## Compatibility

NutraFeed products are compatible with additional Chelated trace elements. Do not mix NutraFeed with non-chelated micronutrients such as copper, zinc, iron and manganese sulphates. Do not mix calcium nitrate in the stock solution with NutraFeed as a residue of calcium sulphate or calcium phosphate will form. It is not recommended to mix NutraFeed with selective herbicides or copper fungicides. Consult Barmac for further advice with specific product compatibilities.

## NutraFeed Soluble Fertiliser Product Range Comparison (%w/w)

Product	N%	P%	K%	Mg%	Fe%	Mn%	B%	Zn%	Cu%	Mo%	S%
NutraFeed 4	19	2	17	0.3	0.08	0.04	0.01	0.01	0.01	0.002	8.3
NutraFeed 7	10	2.6	33	1	0.1	0.04	0.01	0.01	0.01	0.002	1.3
NutraFeed 12	12	15	12	0.4	0.11	0.1	0.01	0.01	0.01	0.01	5.7
NutraFeed 19	21	8	15	0.4	0.04	0.02	0.004	0.003	0.002	0.001	1.4
NutraFeed 20	23.5	-	23.7	0.4	0.04	0.02	0.004	0.003	0.002	0.001	1.4
NutraFeed 23	23	4	18	0.4	0.04	0.02	0.004	0.003	0.002	0.001	1.4
NutraFeed 28	12.5	6	28	0.5	0.06	0.03	0.01	0.008	0.06	0.004	0.7
NutraFeed Kestrel	14.5	5	23	-	0.06	0.02	0.01	0.01	0.01	0.004	4.9

## NutraFeed Solubles Compatibility Chart

Product	Calcium Nitrate	Dissolvabor	EDTA Chelates (Key EL)	Magnesium Sulphate	MAP (Technical)	MKP	Potassium Nitrate	Potassium Sulphate	Trace Elements (as Sulphates)	Urea
NutraFeed 4	✗	✓	✓	✓	✓	✓	✓	✓	✗	✓
NutraFeed 7	✗	✓	✓	✓	✓	✓	✓	✓	✗	✓
NutraFeed 12	✗	✓	✓	✓	✓	✓	✓	✓	✗	✓
NutraFeed 19	✗	✓	✓	✓	✓	✓	✓	✓	✗	✓
NutraFeed 20	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓
NutraFeed 23	✗	✓	✓	✓	✓	✓	✓	✓	✗	✓
NutraFeed 28	✗	✓	✓	✓	✓	✓	✓	✓	✗	✓
NutraFeed Kestrel	✗	✓	✓	✓	✓	✓	✓	✓	✗	✓

✓ = Compatible ✗ = Not compatible - This compatibility chart should be used as a guide only

## NutraFeed<sup>®</sup>

Soluble and Liquid Fertilisers

## SOLUBLE FERTILISER

# Product Range



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## NutraFeed 4

Product	N%	P%	K%	Mg%	Fe%	Mn%	B%	Zn%	Cu%	Mo%	S%
NutraFeed 4	19	2	17	0.3	0.08	0.04	0.01	0.01	0.01	0.002	8.3

NutraFeed 4 is an NPK soluble fertiliser blend with slightly higher nitrogen to potassium ratio that makes it suitable for application to most crops from the early vegetative through to flowering stage. NutraFeed 4 also contains phosphorus magnesium and trace elements to fully support strong plant development and growth. NutraFeed 4 is suitable for use on a wide range of horticultural or broad acre crops, and can be fertigated or foliar applied.

## NutraFeed 7

Product	N%	P%	K%	Mg%	Fe%	Mn%	B%	Zn%	Cu%	Mo%	S%
NutraFeed 7	10	2.6	33	1	0.1	0.04	0.01	0.01	0.01	0.002	1.3

NutraFeed 7 is an NKP soluble fertiliser blend with a high potassium to nitrogen ratio that makes it suitable for application to crops requiring high amounts of potassium. NutraFeed 7 is recommended to be used during the flowering to harvest period due to the higher requirement for potassium to assist filling of reproductive tissue to maximise size and yield. NutraFeed 7 is suitable for use on a wide range of horticultural or broad acre crops, and can be fertigated or foliar applied.

## NutraFeed 12

Product	N%	P%	K%	Mg%	Fe%	Mn%	B%	Zn%	Cu%	Mo%	S%
NutraFeed 12	12	15	12	0.4	0.11	0.1	0.01	0.01	0.01	0.01	5.7

NutraFeed 12 is an NKP soluble fertiliser blend with a high phosphate content and a balanced potassium to nitrogen ratio. The high phosphate analysis makes it ideal for application to crops at planting and early establishment due to its role in promoting root development and shoot elongation. Fertigation/trickle irrigation of NutraFeed 12 is recommended if used as a starter fertiliser as this provides maximum root uptake of the applied nutrients. Application through trickle enables the nutrients to be placed in the area of the most intensive root activity. NutraFeed 12 is recommended to be used to assist plant establishment, but may be used at any other stage if there is a high phosphate requirement. This blend is also suitable for application pre-flowering to enhance early flowering in many crops NutraFeed 12 is suitable for use on a wide range of horticultural or broad acre crops, and can be fertigated or foliar applied.

## NutraFeed 19

Product	N%	P%	K%	Mg%	Fe%	Mn%	B%	Zn%	Cu%	Mo%	S%
NutraFeed 19	21	8	15	0.4	0.04	0.02	0.004	0.003	0.002	0.001	1.4

NutraFeed 19 is an NPK soluble fertiliser blend with a higher nitrogen to potassium ratio and a good amount of phosphate. This product can be used in a wide range of crops to boost general crop vigour at most crop development stages, but particularly suits the early vegetative to flowering crop window. NutraFeed 19 can be applied as a multi-nutrient boost pre-flowering and/or as part of an ongoing fertiliser application in a crop nutrition program. NutraFeed 19 is suitable for use on a wide range of horticultural or broad acre crops, and can be fertigated or foliar applied.

## NutraFeed 20

Product	N%	P%	K%	Mg%	Fe%	Mn%	B%	Zn%	Cu%	Mo%	S%
NutraFeed 20	23.5	-	23.7	0.4	0.04	0.02	0.004	0.003	0.002	0.001	1.4

NutraFeed 20 is a balanced NK soluble fertiliser blend for use in a wide range of crops to boost general crop vigour at any crop development stage. Due to its even nitrogen to potassium ratio and complete trace element package, it can be applied as a multi-nutrient boost pre-flowering or during the reproductive stage without disrupting the physiological development stage. It does not contain any phosphate so is suitable for use on phosphate sensitive plants or for crops grown in high P soils. NutraFeed 20 is suitable for use on a wide range of horticultural or broad acre crops, and can be fertigated or foliar applied.

## NutraFeed 23

Product	N%	P%	K%	Mg%	Fe%	Mn%	B%	Zn%	Cu%	Mo%	S%
NutraFeed 23	23	4	18	0.4	0.04	0.02	0.004	0.003	0.002	0.001	1.4

NutraFeed 23 is an NPK soluble fertiliser blend with a slightly higher nitrogen to potassium ratio that makes it suitable for application to most crops from the early vegetative through to flowering stage. NutraFeed 23 also contains phosphorus magnesium and trace elements to fully support strong plant development and growth. NutraFeed 23 is suitable for use on a wide range of horticultural or broad acre crops, and can be fertigated or foliar applied.

## NutraFeed 28

Product	N%	P%	K%	Mg%	Fe%	Mn%	B%	Zn%	Cu%	Mo%	S%
NutraFeed 28	12.5	6	28	0.5	0.06	0.03	0.01	0.008	0.06	0.004	0.7

NutraFeed 28 is an NKP soluble fertiliser blend with a high potassium to nitrogen ratio that makes it suitable for application to crops requiring high amounts of potassium. The product contains good phosphate, magnesium and complete trace element support to encourage improved plant vigour. NutraFeed 28 is recommended to be used during the flowering to harvest period due to the higher requirement for potassium to assist filling of reproductive tissue to maximise size and yield. NutraFeed 28 is suitable for use on a wide range of horticultural or broad acre crops, and can be fertigated or foliar applied.

## NutraFeed Kestrel

Product	N%	P%	K%	Mg%	Fe%	Mn%	B%	Zn%	Cu%	Mo%	S%
NutraFeed Kestrel	14.5	5	23	-	0.06	0.02	0.01	0.01	0.01	0.004	4.9

NutraFeed Kestrel is an NKP soluble fertiliser blend with a higher potassium to nitrogen ratio that makes it suitable for application to crops requiring higher amounts of potassium relative to nitrogen. The product also contains good phosphate and complete trace element support to encourage improved plant vigour. NutraFeed Kestrel is recommended to be used during the flowering to harvest period due to the higher requirement for potassium, which assists filling of reproductive tissue to maximise size and yield. NutraFeed Kestrel is suitable for use on a wide range of horticultural or broad acre crops, and can be fertigated or foliar applied.

## Crop Stage and Product Suitability Table

Planting/Establishment	Vegetative - Flowering	Flowering - Harvest
NutraFeed 12	NutraFeed 4 NutraFeed 12 NutraFeed 19 NutraFeed 20 NutraFeed 23	NutraFeed 7 NutraFeed 12 NutraFeed 20 NutraFeed 28 NutraFeed Kestrel

