

fact file: *Nitrosol Blend*

What is Nitrosol Oceanic & Nitrogen Booster Blend Fertiliser

Nitrosol Oceanic is a liquid fertiliser manufactured from hydrolysed deep-sea fish blood and bone plus trace elements and minerals with a balanced N.P.K of 11.5.7. The organic materials feed and nurture the microbiological activity in the soil, increasing cycling, bacterial and fungal activity, and earthworm counts. This improves soil structure and increases the availability of important nutrients, trace elements and minerals to the plants.

Nitrosol Nitrogen Booster is a liquid source of nitrogen which is the fundamental element in plant biology. The nitrogen cycle is one of the main drivers in soil activity and plant growth. Nitrosol Nitrogen Booster has a high level of vegetable derived amino acids that are readily absorbed by plant foliage to provide very fast nitrogen uptake and utilisation with the added benefit of encouraging beneficial soil organism health to provide a further boost for the plants root system.

Nitrosol has been around for over 50 years and over this time has developed a strong following and reputation for supporting plant growth and soil health both in New Zealand and around the world.

Why use Nitrosol Blends

Many of our Nitrosol farming customers apply mixtures of Nitrosol products on their crops. The most common request for a blend of Nitrosol products is a combination of Nitrosol Oceanic together with Nitrosol Nitrogen Booster. This has the following Benefits.

1. **Get the best of both worlds!** The Blend allows additional nitrogen to be applied while still getting the benefits of the full spectrum of nutrients in Nitrosol Oceanic.
2. **Convenience.** One less ingredient to dilute with water before applying.
3. **Reduce Costs.** We don't charge a mixing fee for 1000 litres or more, and the mixture is often applied at the same time reducing application costs.
4. Reduced compaction of the soil results from single application.
5. The blend combines readily absorbed macro and micronutrients that combine to give a rapid and sustainable growth response that is far more balanced than is achieved with liquid urea alone.
6. Rapid absorption by foliage avoids leaching and wash off.
7. Very convenient for aerial spraying on established crops such as maize that cannot be accessed by land based spraying equipment without crop damage.
8. This blend is especially favoured for application to pasture in autumn and early spring together with Nitrosol Gibb A90 to extend the pasture growing season.

(Gibb A 90 is gibberellic acid and is added to the diluted Nitrogen rich fertiliser blend just before application at 9 grams / hectare)

Nitrosol®
Biological Fertilisers

about Nitrosol Oceanic

Nitrosol is a one-step colloidal liquid suspension organic based fertiliser containing:

- A balanced NPK 11.5.7. to feed through both foliage and roots.
- A balanced formulation of trace elements and minerals to address deficiencies and imbalances.
- Organic matter including protein, amino acids, and carbohydrates to feed and nurture the biological activity in the soil.
- A naturally occurring growth factor stimulates plants to take up and use all the available nutrients, trace elements and minerals.

Nitrosol Original

Made from sheep and beef blood and bone, Nitrosol Original has been widely used since 1971. It has gained an enviable reputation for producing strong, healthy, disease resistance plants as well as top quality flowers, fruit, and vegetables.

NPK 11.5.7

Nitrosol Oceanic

Nitrosol Oceanic is made from organic matter sourced from deep-sea fishing operations. It is ideal for use on pastoral grazing land with no stock withholding period, and in horticulture. Nitrosol Oceanic has the same typical analysis and will produce the similar results to Nitrosol Original.

NPK 11.5.7

Nitrosol Organic

Nitrosol Organic has been certified by BioGro Ltd for permitted use in agriculture and horticulture by certified organic growers. With a higher organic content, it will help to produce healthy biologically active soil as well as highly nutritious and flavoursome fruit, vegetables, and healthy nutritious feed for grazing animals.

NPK 6.1.3

Distributed by:
Rainbow & Brown Ltd
68a Tallyho Street
Rotorua 3015
Ph: 0508 299 299
www.rainbowbrown.co.nz

CONTINUED OVERLEAF 

Application rates

Typical Dairy Pasture Application: 30 Litres /Ha with 100 Litres/Ha of water as pasture or soil application. If applied directly to soil prior to cultivation via fertigation and irrigation systems, higher dilution rates than above can be used.

Typical Beef/Sheep Pasture Application: 30 Litres /Ha with 100 Litres/Ha of water as soil or pasture application. If applied directly to soil prior to cultivation via fertigation and irrigation systems, higher dilution rates than above can be used.

Typical Foliar Application: 1: 100 litres of water.

Typical Fertigation: Apply 5 – 15 Litre/Ha with 200 to 400 Litres/Ha water toward the end of irrigation shift to flush the irrigation system out with clean water including all mainlines, sub-mains and internal delivery system.

Consisting of:

1. Nitrosol Oceanic NPKMgS 11./5./7./0.4/1.4
2. Nitrosol Booster NPKMgS 21.5/0.6/0.8/0.7/1.0
3. Final Mixture 2:1 NPKMgS 14.5/3.5/5.0/0.5/1.3

Use Rate: 30Lt/hectare

Dilution can be varied to suit the speed, swath width and spray rate of the application equipment. Groundspray equipment may use a dilution of between 1:10 to 1:50. For airborne equipment use a dilution as low as 1:1. The more water the better. This may be applied before, during or after rain without loss due to leaching or runoff.

Typical product analysis % W/V

Nitrogen N	14.5%	Phosphorus P	3.5%	Potassium K	4.9%
Sulphur S	1.3%	Calcium Ca	0.9%	Magnesium Mg	0.5%
Manganese Mn	215ppm	Zinc Zn	153ppm	Copper Cu	135ppm
Boron B	149ppm	Molybdenum Mo	121ppm	Cobalt Co	16ppm
Selenium Se	30ppm	Iron Fe	209ppm		

Important user information

- Nitrosol Blends may be used on grazing pasture with no stock withholding period.
- Do not store product that has been mixed with water, as it will not keep.
- Nitrosol may settle in its container over time. Contents should be agitated before use.

did you know?

Nitrosol Oceanic & Nitrogen Boost blend has a specific gravity of approximately 1.24 so one litre weighs approximately 1.24 kgs.

Because Nitrosol is a colloidal suspension containing organic material, it will not leach or wash away even under heavy rain or irrigation.

Nitrosol feeds via both the foliage and roots meaning that it can be applied directly to plants and the surrounding soil with excellent results.

The natural growth factor in Nitrosol help plants to use the available nitrogen more efficiently with less waste.

Nitrosol is widely accepted as an important part of integrated fertiliser programmes to improve soil sustainability.

Nitrosol is exported from New Zealand to Europe, Asia, Bangladesh, Canada, USA, South Africa, Taiwan, UK, India, and several South Pacific Islands.

Distributed by:
Rainbow & Brown Ltd
68a Tallyho Street
Rotorua 3015
Ph: 0508 299 299
www.rainbowbrown.co.nz