



New, dry
granular
source

Enrich soil the natural way



A valued natural fertiliser from the sea

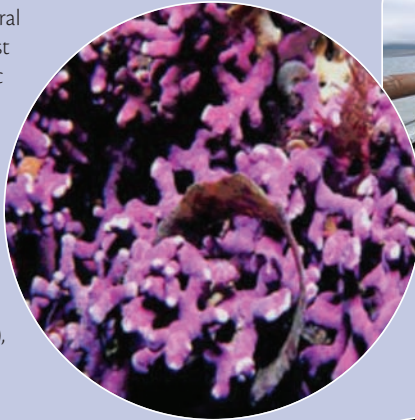
During the 1980s and 90s calcified seaweed transformed the nutrient status of many farmers' grazing land. In fact, plenty of testimonials claim no single product has ever had such a beneficial effect on pasture growth and livestock.

This valued natural fertiliser from the sea has been sorely missed, but in SeaCal there is now a new source of calcified seaweed.

What is SeaCal?

SeaCal seaweed is a completely natural product harvested off the South West coasts of Ireland and Iceland by Celtic Sea Minerals. **SeaCal** rapidly absorbs minerals and nutrients from sea water, growing into a hard, brittle, coral-like structure with a high mineral and trace element content.

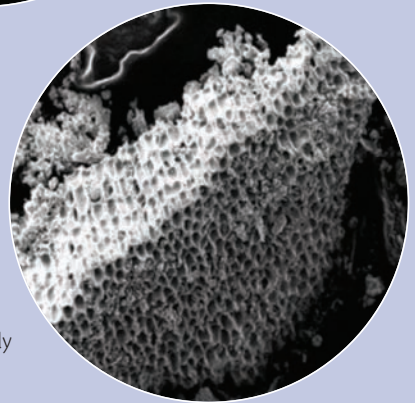
SeaCal offers the potential to cut fertiliser costs and significantly improve plant uptake of nitrogen (N), phosphorus (P) and potassium (K).



How does SeaCal work?

SeaCal is supplied in dry, granular form, but its inherent honeycombed coral-like structure is an ideal habitat for soil bacteria. Following application, bacteria quickly colonise its structure and, once established, start to break down – releasing calcium, magnesium and trace elements.

The increase in bacterial activity contributes to a better soil structure, which in turn helps plants develop a stronger root system. The improved soil structure – allied with a more active root system – enables plants to utilise the minerals already present in the soil and take advantage of the trace elements released from **SeaCal**.

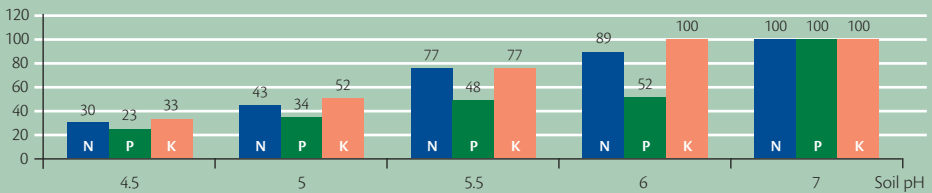




Correct acidic soils

Soils are becoming increasingly acidic due to increased applications of slurry and nitrogenous fertilisers, such as urea, which contribute to the faster removal of calcium from the soil. This can leave pastures 'sour' with livestock reluctant to graze.

Soil pH affects the availability of fertiliser nutrients



At pH 5.5 23% of all applied Nitrogen is unavailable to the crop.

Applying calcified seaweed raises soil pH*, with studies showing that increasing the pH of an acid soil (pH 5.5) with **SeaCal** by 0.5 of a unit improves N, P and K availability by 16%, 8% and 30% respectively. With chemical fertiliser prices continuing to escalate this is a significant benefit.

*Independent laboratory tests indicate SeaCal has a total neutralising value (TNV) of 90%.

Excellent mineral profile

SeaCal is a rich source of calcium and magnesium, as well as 72 trace minerals. Calcium is important for the build-up and maintenance of plant cell walls, the resistance of tissues and root development. Magnesium activates protein synthesis and facilitates the absorption of phosphorus.

SeaCal can also help address other soil mineral imbalances and trace element deficiencies. As well as releasing locked-up phosphate and potash in the soil, **SeaCal** releases macro minerals and a comprehensive range of trace elements to promote a healthy plant.

SeaCal mineral analysis

Calcium	CaCO ₃	85%	Manganese	Mn	125ppm
Magnesium	MgO	11.5%	Iron	Fe	2120ppm
Phosphorus	P	0.08%	Cobalt	Co	6ppm
Potassium	K	0.1%	Copper	Cu	12.2ppm
Sulphur	S	0.45%	Zinc	Zn	37.0ppm
Boron	B	16.5ppm	Selenium	Se	1ppm
Fluorine	F	300ppm	Molybdenum	Mo	39ppm
Sodium	Na	3100ppm	Iodine	I	15ppm



SeaCal – a valued natural fertiliser from the sea

- Cut fertiliser costs
- Boost crop yield, quality and palatability to livestock
- Correct acidic soils
- Correct soil mineral imbalances
- Stimulate beneficial soil bacteria
- Improve root development and soil structure
- Release 'locked up' phosphate and potash
- Reduce slug damage
- Fix atmospheric nitrogen

Application of SeaCal

Thanks to the dry, granular nature of **SeaCal** it can be applied to land using a standard fertiliser spreader, which means it's possible to spread it yourself without the need of a specialist contractor.

Spread only once every three years!

An application rate of 250kg per acre is recommended every three years. Spreading can be done at any time of year and any livestock can remain in the field during application.



Celtic Sea Minerals

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