

# Carbonite

Biologically activated soil amendment

**Carbonite** is rich in humus and complex organic Carbon, and contains a natural balance of plant available and slow release nutrients. Its real strength however, lay in its ability to replenish the **enormous diversity of beneficial organisms**, (fungi, bacteria, protozoa and beneficial nematodes) which soils need to ensure optimum performance levels.

These beneficial soil organisms are largely responsible for the retention and cycling of nutrients within the soil, including their release to plants. Soil microbes also help decompose thatch and plant residues, building the levels of **stable and complex Organic Carbon**, and raising the soils' cation exchange capacity (CEC).

By improving soil structure, soil microbes also improve Oxygen levels in the root zone, reducing anaerobic conditions which favour pathogens, creating a preventative approach to disease and insect infestation. The many millions of beneficial organisms contained in every gram of **Carbonite** builds protection and resistance to common root diseases and root feeding organisms.

**Carbonite** contains worm castings, produced by the natural digestive processes of worms (natures' recyclers) and is one of the best ways of building soil health and sustainable, long-term fertility. **Carbonite** also contains a natural/organic slow release Nitrogen source and stable humic/organic Carbon.

### Major Nutrients (as% of sample dry weight)

Nitrogen	Phosphorous	Potassium	Calcium	Magnesium	Sulphur	Copper	Iron	Zinc	Manganese	Boron
2.70%	2.40%	0.45%	4.50%	1.40%	4.30%	7.5%	1.80%	0.70%	0.11%	0.10%

EC (mS/cm)	pH (1:5) CaCl	Total Solids %	Active Bacteria (µg/g)	Total Bacteria (µg/g)	Active Fungi (µg/g)	Total Fungi (µg/g)	Hyphal Diameter (µm)	Flagellates (/g)	Amoebae (/g)	Ciliates (/g)	Beneficial Nematodes (/g)
1.04	6.7	62.3	21.5	1714	3.19	58.8	2.5	9370	45151	0	14.6

Carbonite can be applied at any time and can be spread using most commercial fertilizer spreaders.

**New turf surfaces** - Incorporate into the root zone mix at 3% - 5% by volume or (100lt – 200lt per 1000m<sup>2</sup>).

**Top dressing existing turf** - Typical application rates (50lt – 100lt per 1000m<sup>2</sup>) – Can be rubbed into the turf surface or core holes, or mixed with top dressing media prior to dusting.

**General landscape use** (trees, shrubs, garden areas, including natives) Incorporate into the soil via core holes or lightly working into the soil around trees and plants at 200gm - 300g/m<sup>2</sup>.

**Pot plants** – mix 600gm with 25lt potting mix.