



# Qld Organics DiataGrow Silica Compost



## Product Information

**DIATAGROW** is an all-round compost high in Carbon, Silica, Potassium and enhanced microbiology to boost soil health for improved fertiliser efficiency, increased disease suppression and environmental stress resistance; particularly for tree and small crop applications.

### DIATAGROW - Enhanced Soil Health

**DIATAGROW** is an excellent source of carbon, enhanced water holding capacity/ retention and introduction of beneficial microbes. Carbon is the basis for soil fertility which enables physical and biological health, nutrient release, structure and moisture retention. Increased soil cation exchange allows for increased ability to hold onto essential nutrients and provides a buffer against soil acidification. These factors lead to larger, stronger, further-spreading, vigorous root systems which are more efficient at harvesting soil nutrients/ moisture, with increased resilience to pathogen attack and environmental stresses.

### DIATAGROW - Plant available Silica

**DIATAGROW** also contains 20% Diatomite; a naturally occurring siliceous rock formed from ancient deposits of unicellular plants known as diatoms. Silica has been shown to enhance plant growth through stronger root systems, thicker stems, shorter inter nodes, larger/ thicker leaves and natural resistance to bacterial and fungal diseases. Silica's ability to help offset environmental stress like temperature, salinity, heavy metal toxicity and water availability has a positive effect on the biomass yield. Diatomite is porous in nature, enabling it to hold up to 120% of its weight in water.

### DIATAGROW - Soil Microbiology

**BIOLOGICAL DIVERSITY** is gained through a wide range of ingredients and full composting process. The blend of manures provides a variety of bacterial dominant inputs, while the 20-30 week composting process facilitates fungal-dominant microbes. This spectrum of beneficial microbes contributes to soil health, working in partnership with plant roots to maximise ongoing nutrient uptake while assisting to suppress soil/plant diseases.

### DIATAGROW - Farm Applications

Upon maturity **DIATAGROW** is screened 20MM minus for ease of use and consistent spreading. Use DIATA grow for enhanced soil health to boost tree/ small crop yields, feed hungry soils, reclaim marginal country and increase irrigation efficiency.

### DIATAGROW DIATA-GROW Silica Compost has the following benefits:

- Creates a balanced ratio of beneficial fungi to bacteria;
- Increases soil organic carbon;
- Increased plant nutrition;
- Greater disease resistance through the availability of a soluble form of Silica;
- Reduced insect attack;
- Improves soil cation exchange capacity and water holding capacity;
- Improves fertiliser and irrigation efficiency;
- Increases yield and crop quality.

**For further information about application rates and next steps contact Queensland Organics (07) 3203 1379.**



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Product Information *continued...*

## Typical Analysis:

Nitrogen (N)	Total Nitrogen (%)	1.48 %
Phosphorous (P)	Total Phosphorus (%)	0.86 %
Potassium (K)	Total Potassium (%)	1.23 %
Effective Cation Exchange Capacity	Cmol + /kg	46.26 %

## Silica + Trace Elements

Silica	Total	1.577 mg /kg
Calcium	Available	2.97 %
Magnesium	Available	0.81 %
Zinc	Available	72.5 mg/kg
Boron	Available	3.64 mg/kg
Iron	Available	264 mg/kg
Copper	Available	4.7 mg/kg
Manganese	Available	63 mg/kg
Carbon	Total	28.0 %
Sulphur	Total	0.87 %
Molybdenum	Total	2.14 mg/kg
Cobalt	Total	17.15 mg/kg
Moisture Content	%	18 %

Analysis conducted by Environmental Analysis Laboratory (EAL) 5 June 2019 Ref i2472