



DiataGrow Silica Compost



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. Sourced from a blend of low-risk clean stream organic materials such as cow, poultry manures, food processing and agricultural by products, sawdust, land clearing mulch etc., you can use DIATAGOW with confidence.

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.

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 increase plant available water to more than 60%.

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-to-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 **DIATAGROW** for enhanced soil health to boost tree/ small crop yields, feed hungry soils, reclaim marginal country and increase water efficiency.

DIATAGROW Silica Compost 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.
- Improves soil cation exchange capacity and water holding capacity; 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)	<i>Total Nitrogen (%)</i>	<i>2.43 %</i>
Phosphorous (P)	<i>Total Phosphorus (%)</i>	<i>0.81 %</i>
Potassium (K)	<i>Total Potassium (%)</i>	<i>1.73 %</i>
Effective Cation Exchange Capacity	<i>Cmol + /kg</i>	<i>37.89 %</i>

Silica + Trace Elements

Silica	<i>Available</i>	<i>0.793 %</i>
Calcium	<i>Available</i>	<i>2.20 %</i>
Magnesium	<i>Available</i>	<i>0.75 %</i>
Zinc	<i>Available</i>	<i>0.0324 %</i>
Boron	<i>Available</i>	<i>0.0362 %</i>
Iron	<i>Available</i>	<i>0.0885 %</i>
Copper	<i>Available</i>	<i>0.0139 %</i>
Manganese	<i>Available</i>	<i>0.0535 %</i>
Carbon	<i>Available</i>	<i>28.0 %</i>
Sulphur	<i>Available</i>	<i>0.53 %</i>
Molybdenum	<i>Available</i>	<i>0.00067 %</i>
Cobalt	<i>Available</i>	<i>0.00079 %</i>
Moisture Content	<i>%</i>	<i>21 %</i>

Analysis conducted by Environmental Analysis Laboratory (EAL) 14 Nov 2020 Ref J6875