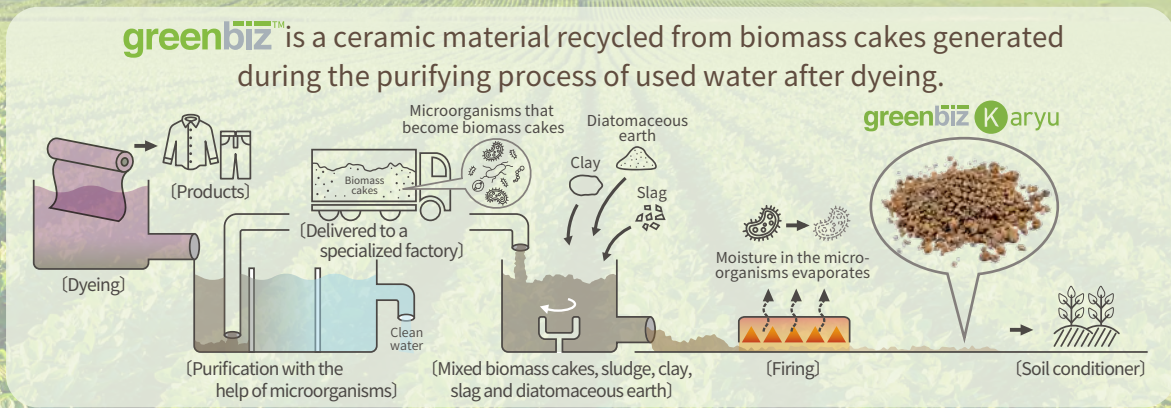


A soil conditioner made of porous ceramic

greenbiz™ Karyu

Soil conditioner with countless number of holes, made by mixing clay and biomass cakes then baking at 1,000°C

※Biomass cake: An organic substance which is generated when water discharged from the dyeing process is purified.



Features of greenbiz™ Karyu



High water retention

Improves the water retention of soil that has poor water retention.



High water permeability

Improves the permeability of soil with poor drainage, and prevents root corrosion and over-humidity.



Airflow improvement

Green Biz Karyu's pores contain air (oxygen), helping roots breath.

Microorganism vitalization

The fine pores provide dwellings for microorganisms in the soil.



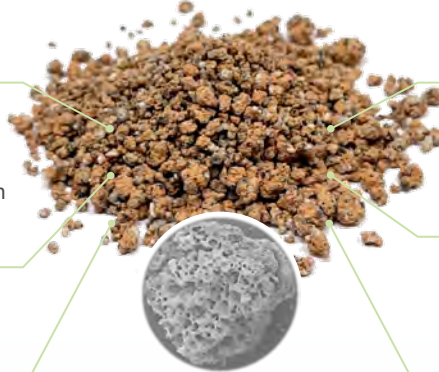
Safety

Since it is fired at a high temperature, it does not contain weed seeds or pathogenic bacteria.



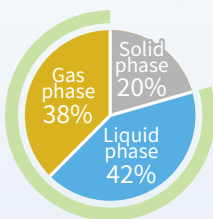
100% inorganic

It does not decompose and does not generate toxic gases.



Magnified photo (x30) using an electron microscope

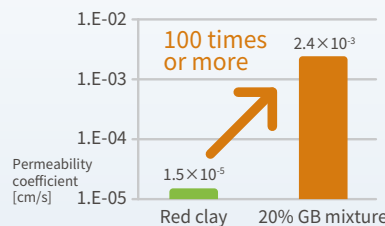
Helps supply water and oxygen



Gas phase + Liquid phase = 80%

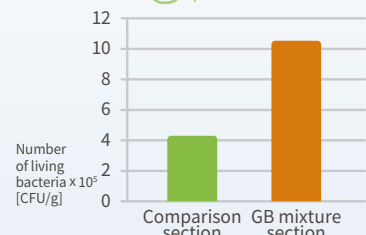
The graph shows the ratio of liquids, air and solids when the amount of moisture in GB Karyu (medium grain) is pF 1.5.

Improves drainage



The graph shows permeability (flow rate through the soil). The larger the value (closer to E-02), the more water flows.

For making good quality soil



The graph shows the number of living bacteria. A higher value indicates a higher number of bacteria.

	Small grain	Medium grain	Large grain
Grain diameter	1 mm or less	1~5mm	5~10mm
Bulk specific gravity	0.9~1.0	0.6~0.7	0.6~0.7
Volume water retention	45~60%	30~45%	15~25%
pH	9~10	8~9	8~9

*The above values are internal test results and not guaranteed values.

Water retaining capacity

High

Water draining capacity

Low

1. Improves the water retention of sandy soil
2. Limits the solidification of clay soil

Applicable to a wide range of applications
Balanced type

For hydroponic cultivation and soil drainage



The material can be applied to a variety of use cases by mixing.
The usage method differs depending on the soil condition; please ask our sales staff for assistance.

Example applications

case 1 Poor drainage
Useful for soils with poor drainage

Improves soil drainage

Recommended! **Medium grain**



No GB Karyu used GB Karyu used

case 2 Poor water retention
Useful for soils that dry easily

Improves water retention

Recommended! **Small grain** **Medium grain**

※For sandy soils ※Soils other than sandy soils






No GB Karyu used GB Karyu used

case 3 Dries hard or becomes sticky when wet
For red clay

Improves the soil structure of red clay

Recommended! **Small grain**



No GB Karyu used GB Karyu used

case 4 As an alternative material for charcoal
Pine seedling planting material

Improves soil water retention and acidity

※Prevents soil acidification due to acid rain

Choose depending on the soil condition **Small grain** **Medium grain** **Large grain**

No GB Karyu used GB Karyu used

