



Recycling Division
TRIM CO.,LTD

Porous lightweight foam material

スーパースォール
SUPER SOL

Catalog

What is Super Sol?

Super Sol is an artificial porous lightweight foam made by crushing and firing waste glass, viewing it not as trash but as a new resource.



1.Raw Glass Material



2.Glass Granule



3.Glass Powder



4.Super Sol

Six Features

1.Porous

The feature is that there are countless large and small holes.

3.Water retention& permeability

The porosity of Super Sol prepares the soil environment.

5.Super Light

The specific gravity of the Super Sol is 0.25-1.6.It is possible to control the specific gravity from light enough to float on water to sinking in water.

2.Inorganic Material

Resistant to heat and chemicals.

4.ECO

Super Sol is a recycling product from soil to soil.

6.Workability

There is no need for Super Sol curing, and it can be used with simple construction such as leveling and rolling.

Standard Specification

L1

※2type

density in
dry condition
0.25~0.5
mg/m³

Absorption Rate
20% More than.

L2

※1type

density in
dry condition
0.35~0.5
mg/m³

Absorption Rate
20% Less than.

L3

density in
dry condition
0.5~1.0
mg/m³

Absorption Rate
10% Less than.

L4

density in
dry condition
1.0~1.6
mg/m³

Absorption Rate
5% Less than.



Component

content (%)

SiO₂ Silicon dioxide 73.5%

CaO Calcium oxide 12.1%

Na₂O Sodium oxide 10.5%

Al₂O₃ Aluminum oxide 1.57%

K₂O Potassium oxide 0.98%

MgO Magnesium oxide 0.42%

Applications of Super Sol

Civil engineering

It is used at sites where lightweighting is required.



Super Sol is an artificial porous lightweight foamed material created by crushing and firing waste glass, viewing it not as trash but as a new resource. We introduce its six distinctive features.

Greening

Creates the conditions necessary for plant growth.



Agriculture

Create the environment necessary for the growth of crops.



Water tank filter media

Super Sol is used as a support material for microorganisms and as a filtering material to maintain water quality with its porous filter



Other use

It is also used for various purposes, such as maintenance materials during disasters.



Waste glass recycling plant



The waste glass recycling plant system uses 96% waste glass as a raw material and is fully automatic. Through the processes of crushing, pulverizing, mixing and stirring, and firing and foaming, it is possible to stably produce artificial pumice Super Sol.



We are aiming for a sustainable future. Based on the SDGs (Sustainable Development Goals), we utilize eco-friendly recycling technologies to achieve effective resource utilization.



We actively accept student tours and enlighten people about the environment through the recycling of waste glass bottles.



Utilizing the filtration ability and water quality maintenance ability of Super Sol, the use of rainwater and
Contributes to the maintenance of water quality in fish farms and reservoirs.



Glass disposal has become a problem not only in Japan, but also worldwide.
Disseminating bottle recycling technology.



It is used at every site as a maintenance material in the event of a disaster and as a lightweight material to prevent disasters.



Considering waste glass that can no longer be used as a resource,
We are building a system that can use artificial pumice stones with different properties for various purposes.



As the safety of the sea is threatened, land-based aquaculture is becoming popular. Taking advantage of the porous characteristics of supersol, it leads to maintenance of water quality.



Super Sol is used as a soil improver to prepare the environment for plants and crops to grow, such as greening and agriculture.



The possibilities of Super Sol are increasing in communication with all kinds of companies in Japan and overseas. We would like to contribute to the reduction of environmental load in all fields.

Super Sol to the world.

Super Sol has manufacturing bases throughout Japan and will expand globally through this network.



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