

03 · Lightweight solid / powder

Lightweight Carbon & Silica Functional Material

During the production of potassium silicate, Bio-Silica recovers a valuable solid material consisting primarily of carbon and silica. It is lightweight and porous, and is supplied as a functional material in its own right rather than treated as a by-product.

KEY CHARACTERISTICS

- Carbon and silica in one material
- Lightweight and porous
- Recovered within the existing process
- Renewable agricultural origin

MAIN APPLICATIONS

Refractory Filler

Pore-Forming Additive

Silica Biochar

Soil Improvement

Adsorption & Filtration

Metallurgical Applications

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Appearance	Black powder
SiO ₂	70–80 %
Carbon	15–20 %
K ₂ O + Fe ₂ O ₃ + CaO + MgO + Al ₂ O ₃ + Cl	< 10 %
Specific surface area	200–600 m ² /g
Particle size	Adjustable

Product specifications and grades can be tailored to meet specific applications and customer requirements.

PACKAGING

5 kg LDPE bags. Other formats to customer requirement.