

SDGs Pelletized Carbon for Phosphorus Adsorption

Code : SDG-10

About the product

SDG-10 is a high-performance, environmentally friendly adsorbent developed by blending biochar and ash derived from woody biomass power generation to enhance phosphorus adsorption. Its pellet form ensures easy handling, and it disintegrates in the presence of moisture, enabling efficient phosphorus recovery from sewage and agricultural runoff. After use, the material can be reused as a fertilizer, contributing to a circular economy.

FEATURES

Highly Efficient Phosphorus Adsorption

Effectively captures phosphorus from sewage and agricultural wastewater, promoting domestic resource recycling.

Hydrolysable and Easily Dispersible

Disintegrates upon contact with water, allowing easy distribution in treatment facilities such as sedimentation tanks.

Reusable as Fertilizer

After use, the product can be applied to farmland as a phosphorus-rich fertilizer.

Contributes to CO₂ Reduction

Fixes carbon through biochar production, offering environmental value as a decarbonization material.

Low Cost and Stable Supply

Utilizes domestic renewable biomass, enabling affordable and sustainable procurement.

PRODUCT PROPERTIES

| | | | |
|----|-------------------------------|--------------------|--|
| 1 | Shape | — | Pellet |
| 2 | Material | — | Biochar, Wood ash, Inorganic porous material |
| 3 | Iodine number | mg/g | — |
| 4 | Moisture content | % | 20 > |
| 5 | Total ash content | % | — |
| 6 | Surface area | m ² /g | — |
| 7 | Pore volume | cm ³ /g | — |
| 8 | Apparent density | g/cc | ca. 1.00 |
| 9 | pH | — | 8-10 |
| 10 | Particle size | mm | Φ4 |
| 11 | Phosphorus adsorption | | |
| | (In Liquid Phase : 203.4 ppm) | | |
| | After 1 Week | % | 99 < |

APPLICATION

Phosphorus removal from sewage and agricultural runoff
Adsorption in sedimentation tanks and water treatment facilities

HEALTH AND SAFETY

Review all relevant health and safety information before using this product. For complete health and safety information, refer to the Safety Data Sheets.

PACKING

20kg paper bag · 700kg Jumbo bag