JEDA ENVIRONMENTAL SOLUTIONS

Product Data Sheet

SDGs Pelletized Carbon for Soil Improvement

Code : SDG-3

About the product

SDG-3 is a pelletized functional carbon made from biochar derived from woody biomass power generation, engineered to enhance adsorption of heavy metals and hazardous gases. Utilizing activated carbon production technology, it provides excellent adsorption performance and workability, making it highly effective in soil improvement and environmental remediation applications.

FEATURES

Adsorption of Heavy Metals and Hazardous Substances
Effectively adsorbs and immobilizes toxic heavy metals such as mercury, arsenic, hexavalent chromium, and cadmium in contaminated soil, helping prevent groundwater pollution.

VOC and Odorous Gas Removal
Efficiently adsorbs harmful and malodorous gases such as benzene, ammonia, and hydrogen sulfide, contributing to environmental restoration.

Hydrolysable and Dispersible
Pellets break down and disperse naturally with rainfall or irrigation, ensuring uniform distribution throughout the soil for effective and natural soil amendment.

Carbon-Neutral and Cost-Effective
Made from renewable biomass resources, the product offers high performance at low cost, making it ideal for public works and large-scale remediation projects.

PRODUCT PROPERTIES

1	Shape	–	Pellet
2	Material	–	Biochar、Wood ash、Inorganic porous material
3	Iodine number	mg/g	120 <
4	Moisture content	%	20 >
5	Total ash content	%	ca.72.1
6	Surface area	m2/g	ca..150
7	Pore volume	cm3/g	ca.0.16
8	Apparent density	g/cc	ca. 0.59
9	pH	–	9-11
10	Particle size	mm	Φ4
11	Hexavalent chromium removal		
	(Initial concentration : 179.8ppm)		
	26 days later	%	99 <

APPLICATION

Remediation of contaminated soil
Heavy metal containment (e.g., landfills, former mine sites)
Soil purification for agricultural land

HEALTH AND SAFETY

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

PACKING 20kg paper bag · 700kg Jumbo bag

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