JEDA ENVIRONMENTAL SOLUTIONS

Product Data Sheet

Nickel Catalyst Activated Carbon

Code: NI

About the product

NI is a functional activated carbon utilizing high-surface-area coconut shell-based material impregnated with nanoscale nickel (Ni) particles. Leveraging the catalytic properties of nickel, it delivers high performance in hydrogenation and various chemical reaction processes involving organic compounds.

FEATURES

High Catalytic Activity
Nickel, as a transition metal, exhibits a reactive electronic structure that enables efficient catalysis, particularly in hydrogenation reactions.

Nanoparticle Dispersion
Uniform loading of nickel at the nanoscale enhances both reaction rate and catalyst durability, improving operational efficiency by approximately 30%.

High-Quality Activated Carbon Base
The large surface area of coconut shell activated carbon maximizes gas–solid contact, improving reaction efficiency and adsorption performance.

Enhanced Durability
Offers excellent structural stability and resistance to heat and chemicals, ensuring long service life under demanding conditions.

PRODUCT PROPERTIES

1	Shape	–	Granular
2	Material	–	Coconut shell
3	Activation method	–	Steam Activation
4	Catalyst	–	Nickel
5	Iodine number	mg/g	600 <
6	Moisture content	%	15 >
7	Total ash content	%	5 >
8	Surface area	m2/g	ca.690
9	Pore volume	cm3/g	ca.0.032
10	Apparent density	g/cc	ca. 0.65
11	pH	–	6-8
12	Particle size	–	US 20×50 mesh

APPLICATION

Gas Purification
Effective in the removal of harmful gases and volatile organic compounds (VOCs).

Hydrogenation Catalyst
Suitable for catalytic hydrogenation processes in industrial chemical synthesis.

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

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