JEDA ENVIRONMENTAL SOLUTIONS

Product Data Sheet

NiPd Catalyst Activated Carbon (Trade Name: Ethytol®)

Code : ET

About the product

Ethytol® is an activated carbon functionalized with nickel-palladium (NiPd) catalyst, designed to extend the freshness of fruits, vegetables, and cut flowers. It adsorbs and decomposes ethylene gas, suppressing ripening and preserving quality. The byproducts—CO_2 and moisture—are beneficial to plants, making this product both effective and environmentally conscious. It maintains stable performance even in refrigerated environments.

FEATURES

Ethylene Decomposition
Adsorbs ethylene and catalytically decomposes it via NiPd, delaying ripening and maintaining freshness.

Eco-Friendly Byproducts
Ethylene is broken down into carbon dioxide and water, both harmless and beneficial to stored produce.

Long-Term Stability
The NiPd catalyst offers high durability, ensuring extended effectiveness in cold storage and transport conditions.

APPLICATION

Ideal for ethylene-sensitive produce and flowers.
Suitable for use in commercial refrigerators, display cases, and refrigerated transport vehicles.

PRODUCT PROPERTIES

1	Shape	–	Granular
2	Material	–	Coconut shell
3	Activation method	–	Steam Activation
4	Catalyst	–	Nickel, Palladium
5	Iodine number	mg/g	900 <
6	Moisture content	%	15 >
7	Total ash content	%	5 >
8	Surface area	m2/g	ca.1,000
9	Pore volume	cm3/g	ca.0.0039
10	Apparent density	g/cc	ca. 0.62
11	pH	–	6-8
12	Particle size	–	US 20×50 mesh
13	Gas Removal		
	Ethylene 20ppm	%	99 <

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

Carton

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