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The HB-10 nickel based benzene hydrogenation catalyst is generally used for secondary hydrogenation of benzene in the process of hydrogenating benzene to generate cyclohexane, with about 5% benzene reduced to less than 100ppm. The benzene hydrogenation catalyst comes as a sphere with the diameter of 3-5mm.

Physical Properties

Item	Standard	Item	Standard
Appearance	Black or grey-black spheres	Particle Size (mm)	Φ3 to 5
Chemical Composition	Nickel- alumina	Nickel Oxide (wt %)	16 to 20
Crushing Strength (N/particle)	Min. 80	Bulk Density (kg/l)	0.80 to 0.90

Operation Conditions

Process Parameters	Hydrogen Partial Pressure (MPa)	Temperature (°C)	Space Velocity (hr ⁻¹)	Hydrogen to Benzene Molecular Ratio
	0.5-2.0	160-230	3-4	3.5-10
Raw Material	Benzene content,1- 5.0%; Balance, cyclohexane			
Hydrogenated Products	Outlet benzene content, max. 100ppm; Benzene conversion, min. 99.5%.			

Packing: Shrink wrap the benzene hydrogenation catalyst in 200L steel drums lined with plastic bags, with 3 or 4 drums per pallet.

As a Chinese specialized benzene hydrogenation catalyst manufacturer and supplier, Chempack has received the ISO9001:2000 certification due to its management in strict accordance with international standards. With 40 years of experience in the research, development, and production of chemical products, we are happy to be able to provide a wide variety of quality arsenic removal, oxygen removal, metal random packing, and related products, for customers all over the world. Due to superior performance and economical prices, these chemical products are very popular with customers from petroleum processing, fertilizer, gas purification, environmental protection, petrochemical, desulfurization and denitrification industries, and are exported to dozens of countries and regions. If you are in search of these products, please contact us. The staff at Chempack is fully confident that you will be satisfied with our reliable products and complete service!

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