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The HAC-1 cobalt based aniline hydrogenation catalyst is typically applicable to the hydrogenation of aniline to obtain cyclohexylamine. With the help of the aniline hydrogenation catalyst, 100% aniline can be hydrogenated into less than 100ppm. The hydrogenation catalyst is usually in the form of a Φ 5mm extrudate.

Physical Properties

Item	Standard
Appearance	Black extrudates
Particle Size (mm)	Φ 5 x 5-10
Chemical Composition	Cobalt plus carrier
Cobalt Oxide (wt %)	Min. 30
Crushing Strength (N/particle)	Min. 60
Bulk Density (kg/L)	1.0 - 1.1

Operation Conditions

Process Parameters	Pressure (Mpa)	Temperature (°C)	Space Velocity (h ⁻¹)	Hydrogen to Aniline Molecular Ratio
	Ambient atmosphere	160-175	0.1	20
Raw Material	Aniline, min. 98.5%; water, max.0.4%; no sulfur or sulfides.			
Hydrogenated Products	Conversion of aniline, min. 97%; cyclohexane content, min. 90%			

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

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