
[Gas Aldehyde Hydrogenation Catalyst](#)

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The gas aldehyde hydrogenation catalyst, as a kind of Cu-Zn-Al₂O₃ hydrogenation catalyst, is applied to gas phase hydrogenating of butyraldehyde or octene aldehyde, so as to get butanol or octanol. The hydrogenation catalyst is in the shape of a Φ6.5mm black cylinder.

Physical Properties

Appearance	Black cylinder
Particle Size (mm)	Φ6.5×6.5
Chemical Composition	Cu-Zn-Al ₂ O ₃
Surface Area (m ² /g)	Min. 35
Pore Volume (ml/g)	Min. 0.15
Bulk Density (kg/L)	1.45~1.55/1.35~1.45
Crushing Strength (N/cm)	Min. 200/220

Operation Conditions

Process Conditions	Pressure (MPa)	Temperature (°C)	Space Velocity (hr ⁻¹)	Hydrogen to Aldehyde Ratio (m)
	0.4-0.5	160-220	Min. 0.1	1.0-1.4
Conversion Rate of Butyraldehyde or Octene Aldehyde	Min. 98%			

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

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