
[High Temperature Shift Catalyst](#)

High Temperature Shift Catalyst

The SHT-101 and SHT-125 high temperature shift catalyst, or Fe, Ni, Cu, Al₂O₃ based catalysts, are used to promote the conversion of CO combined with steam into H₂ and CO in ammonia plants or hydrogen production units. The SHT-101 high temperature shift catalyst takes on the shape of a cylinder with diameter of 9mm, while the SHT-125 high temperature shift catalyst can be used in both radial and axial/radial high temperature shift converters, with the form of a 5-8mm-diameter sphere.

Physical and Chemical Properties

Appearance	Brown cylindrical pellets	Brown spheres
Size (mm)	9×5	5-8
Bulk Density (kg/l)	0.8-1.1	
Crushing Strength (N/point)	≥200	
Components	Fe, Ni, Cu, Al ₂ O ₃	
Sulfur Content (%)	≤0.01	

Operating Conditions

Temperature (°C)	310-460	Pressure (MPa)	≤7.0
Space Velocity (h ⁻¹)	≤4000	Steam Gas Ratio	≥0.30
Inlet H ₂ S Content (ppmv)	≤200	O ₂ Content (%)	≤0.5

Chempack is an ISO9001:2000 approved, high temperature shift catalyst manufacturer, located in China. Since we were founded in 1970, we have gained much experience in producing quality chemical products for worldwide customers. Our arsenic removal, carbon monoxide removal, alumina support ball, etc. are increasingly popular for use in many countries, such as Britain, Germany, Kuwait, New Zealand, Thailand, Indonesia, Philippines, and many others, due to their superior quality and competitive prices. If you have any need for these products, please contact us. We at Chempack are happy to assist you with your chemical product need.

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