
[Low Temperature Shift Catalyst](#)

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The low temperature shift catalyst SHT-111, SHT-112, are a kind of CuO-ZnO catalyst used for CO conversion. The shift catalyst is commonly found in ammonia synthesis and hydrogen production processes, which use coal, naphtha, natural gas and oil field gas as feedstock. The low temperature shift catalyst is especially suitable for axial-radial low temperature shift converters. The SHT-111 shift catalyst is available in the shapes of a Φ 5mm cylinder or tablet, while the SHT-112 low temperature shift catalyst is shaped as a Φ 5mm cylinder.

Features

The low temperature shift catalyst provides ideal activity at low temperature, low bulk density, high copper and zinc surface area, and high mechanical strength.

Physical and Chemical Properties

	SHT-111	SHT-111	SHT-112
Appearance	Black cylindrical tablets		
Diameter (mm)	5	5	5
Length (mm)	5	2.5	5
Bulk Density (kg/l)	1.2-1.4		
Radial Crushing Strength (N/cm)	≥ 160	≥ 130	≥ 160
CuO (%)	40 \pm 2		
ZnO (%)	43 \pm 2		

Operating Conditions

Temperature (°C)	180-260	Pressure (MPa)	≤ 5.0
Space Velocity (h-1)	≤ 3000	Steam Carbon Ratio	≥ 0.35
Inlet H ₂ S content (ppmv)	≤ 0.1	Inlet Cl- Content (ppmv)	≤ 0.1

As a Chinese low temperature shift catalyst manufacturer and supplier, we at Chempack are experienced in producing superior chemical products for customers all over the globe. Our company has received the ISO9001:2000 certification due to its management in line with international standards. We provide a complete line of chemical products, including sulfur removal, arsenic removal, adsorbent, and more, to accommodate every need customers may have. High product quality, excellent after sales service as well as OEM service combined has won us a large number of clients from many countries, including Britain, Germany, Kuwait, Thailand, New Zealand, Indonesia, South Korea, Philippines, among others. If you have any inquiries about our chemical products, please contact us via phone or email. The staff at Chempack is sincerely looking forward to working with you.

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