
[Methanol Synthesis Catalyst](#)

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The methanol synthesis catalyst is applied, as its name indicates, in methanol synthesis process. Made based on sophisticated technologies like Lurgi and ICI, the methanol synthesis catalyst features high activity, high space-time yield and CO conversion, high thermal stability, heat resistance, long service life, high strength, easy operation, wide application, high selectivity and minimal organic by-product.

Methanol Synthesis Catalyst METS-1

The METS-1 catalyst for methanol synthesis, or CuO-ZnO-Al₂O₃ catalyst, is used for methanol synthesis in methanol plant. It is made using Lurgi and ICI medium-pressure or low pressure processing techniques. The methanol synthesis catalyst is in the shape of a Φ 5mm cylinder.

Physical Properties

Appearance	Black Cylinders
Particle Size	Φ 5x4-5mm
Bulk Density	1.1-1.4 kg/L
Chemical Composition	CuO-ZnO-Al ₂ O ₃

Operation Conditions

Pressure (MPa)	5-15
GHSV (h ⁻¹)	5000-20000
Temperature (°C)	210-280
Volume of CO at the Inlet (%)	3-15
Volume of CO ₂ at the Inlet (%)	3-5
Overall Sulfides in Feed Gas (ppm)	Max. 0.1
Overall chloride in Feed Gas (ppm)	Max. 0.1
Oxygen in Feed Gas (%)	0.3

Chempack is a specialized Chinese methanol synthesis catalyst manufacturer, providing a complete range of arsenic removal, oxygen removal, molecular sieve, and other products, for worldwide customers. Due to reliable performance, these products are increasingly popular for use in fertilizer, environmental protection, desulfurization and deamination, and petrochemical industries, etc. If you are in search of the chemical products, we encourage you to contact us and try our products. We at Chempack are confident that you will be pleased with our high quality low competitively priced products and attentive service!

FEED BACK FORM

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