
[Organic Sulfur Hydroconversion Catalyst](#)

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The HC-201 organic sulfur hydroconversion catalyst is a CoMo catalyst commonly found in large-scale ammonia plants used for hydroconversion of feed gases (organic sulfur). Formed as a Φ 3mm extrudate, the organic sulfur hydroconversion catalyst suits hydroconversion of light oils or gaseous hydrocarbons in petrochemistry.

Physical Properties

| | |
|--------------------------|-----------------------|
| Appearance | Light blue extrusions |
| Particle Size (mm) | Φ 3×4~15 |
| Bulk Density (kg/L) | 0.60~0.70 |
| Crushing Strength (N/cm) | Min.80 |
| Attrition Loss (%) | Max.3.0 |
| Thiophene Conversion (%) | 99 |
| CoO (%) | Min. 1.4 |
| MoO ₃ (%) | Min.11.0 |

Operation Conditions

| | |
|---|-----------|
| Organic Sulfur in Gases or Oil (ppm) | 100-200 |
| H ₂ to Oil Volume Ratio | 50-100 |
| Hydrogen Content of Feed Gas (%) | 2-5(vol) |
| LHSV (h ⁻¹) | 1-6 |
| GHSV (h ⁻¹) | 1000-2000 |
| Operating Pressure (MPa) | 1.0-4.0 |
| Operating Temperature (°C) | 300-450 |
| Ammonia in Hydrogenated Gas (ppm) | Max. 100 |
| Arsenic in Feed Oil (ppb) | Max. 100 |
| Organic sulfur in Hydrogenated Gas or Oil (ppm) | Max. 0.1 |

The hydrogenation reaction with the help of the organic sulfur hydroconversion catalyst takes place at 300-450°C, and the initial temperature shall be 350-380°C. If the sulfur concentration in feed oil stays below a certain limit, 0.2ppm, e.g. for a long time, sulfur discharge phenomenon will occur. Hence, for a two-section oil hydrogenation system, operating temperature in the first section should be such that can ensure a 2-10ppm sulfur concentration in effluent naphtha, so the catalyst in the second section can be maintained under the sulfided state.

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

Chempack is an ISO9001:2000 certified, professional organic sulfur hydroconversion catalyst manufacturer and supplier, located in China. With 40 years of experience in the chemical product industry, we are able to manufacture reliable oxygen removal, carbon monoxide removal, adsorbent, and other products for customers all over the world. Our location in Jiangxi province offers us easy access to many forms of transportation, which not only help reduce our production cost, but save shipping charges for our clients. If you have any questions or concerns, please contact us. The attentive staff at Chempack is happy to assist you.

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