

CATALYST CUSTOM MANUFACTURING AND TOLLING CAPABILITIES

Accelerating Your Chemistry®

Hydrothermal Synthesis

Precipitation

Impregnation

Forming

Calcination & Reduction



FORMING CAPABILITIES AND CAPACITIES FOR CATALYST CUSTOM MANUFACTURING AND TOLLING

Forming/shaping of high performance fixed bed catalysts can be an essential step in the manufacturing process. Evonik provides various forming technologies including granulation, extrusion and tableting. Evonik Catalysts has significantly increased their forming capacity with a state of the art production facility together with a modern scale up facility in Marl, Germany.

Extrusion

- Tailored diameter, typically 1 to 8 mm
- Defined length

Tableting

- Tailored diameter, typically 3 to 7 mm

Granulation

- Customized size of spheres
- Controlled particle size distribution

With wide-ranging operating permits, many different materials can be handled.

The production unit encompasses control of incoming materials for specification compliance, solid and liquid blending stations, specifically designed extrusion lines, **continuous drying** and rotary kiln **calcination** for temperatures up to 950 °C. Catalysts can be **reduced** and passivated with hydrogen or a hydrogen-air mixture. For any catalyst or support leaving our plants, tailored quality control services, that are agreed upon with our customers, are provided. All of our production facilities are ISO 9001 and 14001 certified.

How you benefit from custom catalyst projects

- Allows you to concentrate on your core business
- Provides you with a skilled partner for developing and scaling up of catalysts
- Access to sophisticated catalyst manufacturing equipment
- Offers greater flexibility in the use of catalyst types and quantities
- De-bottleneck your own catalyst production

Evonik Industries has been a leader in chemical catalysts for more than 75 years. Now as before, customers all over the world rely on Evonik as a competent and trusted partner. Today Evonik is a fully integrated partner in catalysis, featuring homogeneous and heterogeneous catalysis. This makes Evonik unique, and gives our customers the flexibility of finding the most cost efficient solution for their needs. Working with Evonik means having direct access to our regional technical and commercial organization. With a passion for the catalyst business our experienced teams strive for quick response times and high quality tailored solutions to your catalyst topic.

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied.

We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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