

A GAME CHANGER IN FIXED-BED APPLICATIONS

At Evonik, we constantly seek to make a difference. Our innovative nickel foams, for example, are a game changer in fixed-bed applications:

They perform better, are more efficient and sustainable.

EVONIK CATALYSTS

WHAT'S IN IT FOR YOU IN A PARTNERSHIP WITH EVONIK?

- **Same product output with lower quantities of catalyst**
- Extremely **low pressure drop and less abrasion**
- **Longer catalyst life and reduced maintenance costs** in downstream equipment
- Pre-activated and **ready to use**
- **No hazardous dust** and no need for elaborate protective measures
- Fully recoverable and thus **sustainable**
- **Customizable** shapes and pore sizes

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SEPT25-MRZN

Evonik Catalysts NICKEL FOAM





Our nickel foams are **lightweight** with a very large reactive surface – thus, **lower quantities** of catalyst are needed to maintain the **same product output**.
Or achieve a much higher throughput with your established reactor at maintained catalyst bed volume.

Thanks to the large pores, liquids and gases flow right through the two-millimeter-thick nickel foam. The **catalyst bed hardly rises and falls**, resulting in **less abrasion, longer catalyst life, and reduced maintenance costs**.

While our standard 4 × 4-millimeter platelets are suitable for many applications, we can **tailor shapes and pore sizes** to your needs.

Foam catalysts are manufactured under a license from Alantum Europe GmbH.



Our **pre-activated foam catalysts** are delivered in water-filled drums. You can **pour them directly from the drum** into your reactor without hazardous dust or elaborate protective measures.

This makes your catalyst exchange much **faster and safer**. What's more, the foam can be fully recovered and is thus **sustainable**.



**Discover
our catalysts.
Get in touch.**

LET'S
MAKE A
DIFFERENCE

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This innovative technology is ideal for a wide range of industrial-scale hydrogenation applications, such as butanediol (BDO) and oxo alcohol synthesis, as well as flow chemistry processes in pharmaceutical production.

It delivers **substantial process improvements** over standard fixed-bed catalysts: at the same reaction temperature, reaction rates can more than double. At lower temperatures, it helps minimize unwanted by-products while significantly extending catalyst lifetime.