APPLYING OF MICROsieves
DEVELOPMENT AND OPTIMIZATION OF TAILOR MADE SEPARATION PROCESSES

Do you want to separate valuable materials, clarify a product or reject particulate matter? Do you have problems with blocking or stability of membranes and detect contaminants in your products?

We can help with the development and optimization of tailor made separation processes based on microsieves.

**Keywords**
- Maximum selectivity
- High efficiency
- High thermal and chemical stability

**Industrial sectors**
- Water technology
- Wastewater technology
- Life science
- Pharmacy
- Chemical industry
- Flue gas purification

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1 Microsieve with hole diameters of 8 µm.
**Technological specification**

- Microsieve of stainless steel, nickel and silicon nitride (dp 0,3 to 10 µm, filtration area > Ø 5”)
- Functionalized microsieves with reactive surfaces
- Test facility at laboratory scale (stirring cell, filtration area < Ø 80 mm, 400 ml sample volume, < 100 bar)
- Test facility at pilot scale (filtration area < 0,3 m², approx. 1 m³/h, < 16 bar)
- Laboratory analysis (3-D-microscopy, particle sizer, turbidity measurement, zeta sizer)

**Our service**

- Screening tests at laboratory scale
- Development and implementation of microsieve processes and pilot plants
- Development and implementation of prototypes
- Feasibility studies
- Market studies
- Laboratory analysis

**Your benefit**

- Optimized product quality
- More efficient applications
- High process reliability through maximum selectivity and robustness