

Finest Structures in Glass and Ceramic

Why glass or ceramic?

- high voltage strength
- good biocompatibility
- optical transparency of glass
- opacity of ceramic
- resistant to high temperatures
- good electric isolation
- good chemical resistance
- high breaking strength

What can mikroglas do for you?

mikroglas develops and manufactures products for various applications in microtechnology.

With its expertise **mikroglas** generates excellent microstructures (holes, grids, channel systems, etc.) with a high aspect ratio.

mikroglas develops individual system solutions and supplies glasses for your own structurization.

What are mikroglas products used for?

Photostructurable glass is a versatile material which is used in many applications:

biotechnology

- titerplates
- microfluidic systems (lab-on-chip)

microreaction technology

- **mikroglas**[®] reactors
- **mikroglas**[®] heat exchangers
- **mikroglas**[®] mixer
- **mikroglas**[®] microreaction systems

display technology

- spacers for FED
- components for X-ray scanners
- components for plasma screens

sensor and electronic technology

- components for electronic packaging
- components for flowmeters
- components for temperature sensors
- components for ink-jet printers
- shadow mask made of glass for coatings

optics

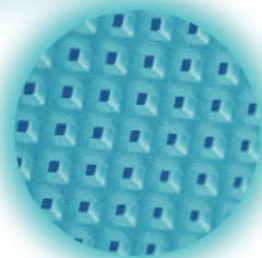
- glass fibre guides

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Examples of structures

hole plates

shape: round or rectangular
diameter of holes: down to 20 μm
thickness of plates: 0.1 up to 2.5 mm
max. no. of holes per mm^2 : 500



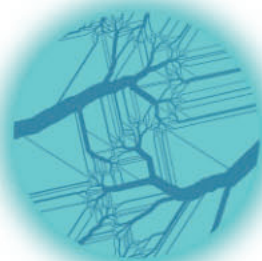
grid structures

height of walls: down to 100 μm
width of walls: down to 20 μm



channel structures

depth of channel: up to 2 μm
width of channel: up to 10 μm



spacers

height: up to 2 mm
width: down to 0.1 mm



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