

Glass Capillary Arrays

Features

- Precision pore size for filtration
- Laminar flow and collimation
- High heat tolerance (up to 450°C)
- Precision pore diameter
- Mechanical strength
- Optical quality finishes
- Custom shapes and materials
- Applications support



Precise Detection

Photonis manufactures our Glass Capillary Arrays to consist of millions of precision glass tubes fused together to produce a uniform and mechanically rigid device in square, rectangular and round shapes. With their strong, self-supporting structure, Glass Capillary Arrays have excellent thermal and chemical stability and sieve-like filtration abilities to be used in a wide variety of applications. With Photonis' Glass Capillary Arrays you can perform more experiments more efficiently.

Customization Options

As a manufacturer, Photonis is able to design and engineer our Glass Capillary Arrays to best suit your requirements. Customization options include:

- Pore size: standard sizes ranging from 5 to 50 microns
- Pore density: standard open area ratio of 45%
- Thickness: ranging in size from .25 mm to 6 mm
- Standard materials: lead glass is typically used however, other materials such as soda lime can also be used
- Surface finish: both sides are either ground matte or polished (pore surfaces are smooth)
- Bias angle: capillaries be offset at a perpendicular angle from input; angular displacements from 0° to 19°
- Flow rate: dependent on fluid characteristics, aspect ratio, and flow characteristics of holding apparatus
- Mounting: variety of options depending on application

Unless otherwise specified, surface finish will be matte, open area ratio will be nominally 50%, and material will be lead glass.

Applications

Due to their unique structure, Gas Capillary Arrays are ideal for a variety of applications including:

- Gas flow collimation
- X-Ray collimation
- Calibrated leak
- Controlled air flow
- Differential pressure barrier
- In-Line filtration
- Optical beam splitters
- Laser entrance windows
- Bioscience multiplexed arrays
- Clinical diagnostics

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