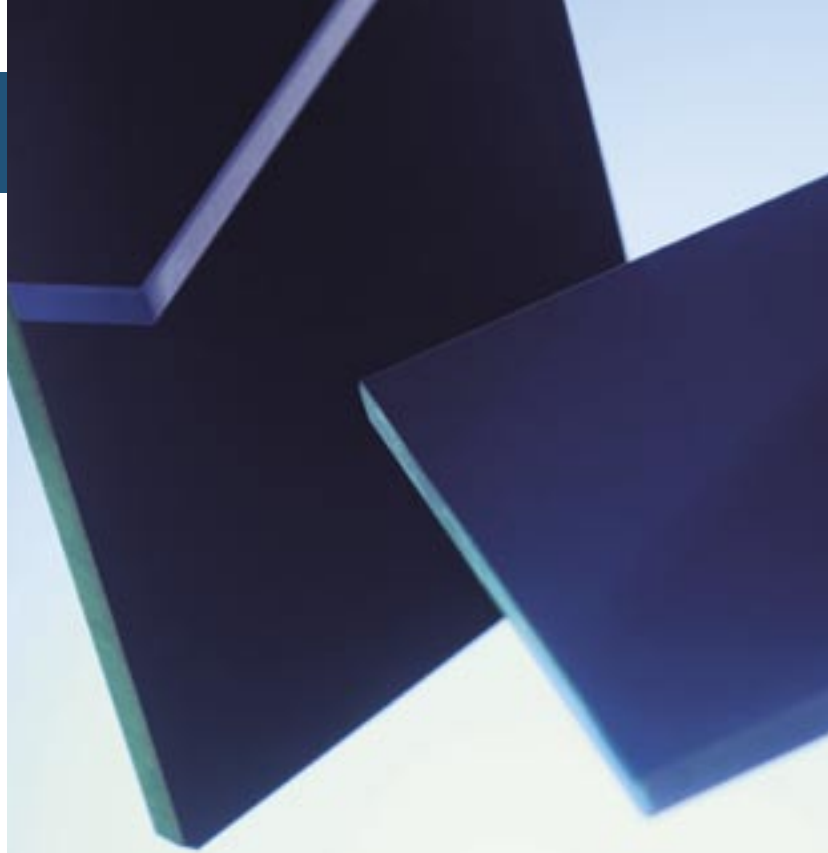
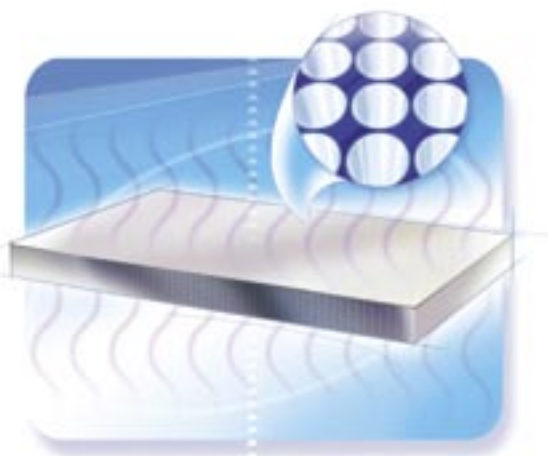


MICROCAPILLARY ARRAY PLATES

Incom's Microcapillary Array Plates consist of dense orderly arrays of flow-through capillaries that are used in a wide variety of analysis, sensing, and processing functions. Incom's plates are manufactured using advanced technology that gives unprecedented flexibility in the choice of capillary internal diameter (ID) and plate thickness, with a cost well less than traditional technology.



PATENT PENDING



(Left) Incom ultrathick absorbing microcapillary plate.

(Right) Close-up showing excellent uniformity of advanced process.

APPLICATIONS

- Chemical analysis
- Bio-terrorism sensing
- Photo reactive analysis
- Precision filtration
- Biological and genetic testing
- Industrial sensing

FEATURES & ADVANTAGES

Flow-through design	▶ easy introduction and removal of reagents
Independent choice of capillary length and ID	▶ flexibility in experiment design
Unlimited aspect ratio	▶ unprecedented availability of long small capillaries
Embedded optically absorbing glass	▶ accurate optical interrogation of reactions without cross talk from other capillaries
Borosilicate glass construction	▶ chemical resistance; easily cleaned
Uniform core size	▶ precision filtration
Low product cost	▶ economical replacement costs and reduced test costs

SPECIFICATIONS

Capillary ID	5 microns to 10mm
Aspect ratio (capillary length: ID)	up to 10,000 : 1
Plate thickness (capillary length)	0.5mm to 600mm
Plate size	up to 300mm x 300mm
Optical cross talk between adjacent capillaries	less than 0.1%
Number of capillaries per plate	100 to 100 million

Equivalent names: microcapillary faceplate, microtiter plate, microcapillary bioplates
Complementary Incom products: Microfluidic Fiber Optic Interrogated Microwell Biochip



Innovation From Glass