Chip Identification Sheet

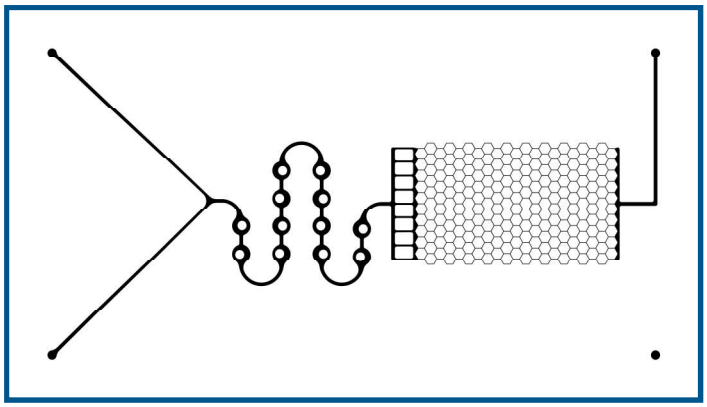
Standard Library

Mixing S100 Chip

Hexagonal Porous Media Chip with Mixing Rings

The Mixing S100 Chip includes a hexagonal, homogeneous porous medium and built-in mixing rings. It enables the co-injection of fluids for on-chip mixing, along with real-time visualization and measurement of fluid performance.

The chip is especially useful for studying foam stability by examining how salinity, temperature, pressure, gas type, and flow rate influence foam behaviour. It also helps assess how foam slows the flow of injected gas, enhancing oil production efficiency.



Chip Profile	
Dimensions	38 x 21 x 2.75 mm
Components	Silicon Base 1.00 mm Glass 1.75 mm
Supports	
Chip Holder	Screw Top Liquid Confined
Ports	3

Porous Media	
Hexagonal Media	30 µm wide 10 µm deep

Mixing Rings			
Inner Diameter	0.5 mm	Radially Displaced by	0.05-0.1 mm
Outer Diameter	1.0 mm	Foam Generator	200 µm wide 10 µm deep

Fluid Analysis Applications
Foam Rheology Emulsions

SKU 300012