

Chip Identification Sheet

Standard Library



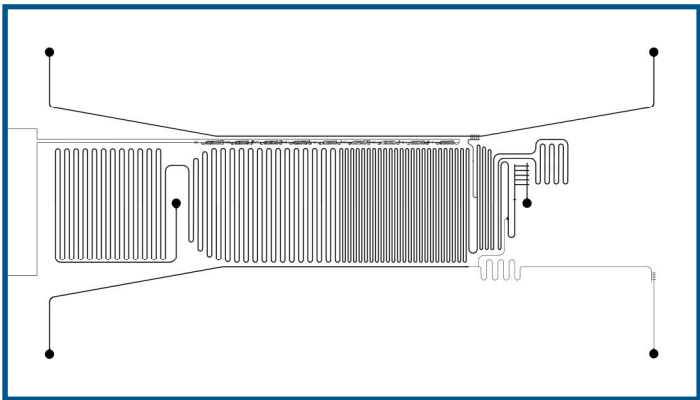
Interface
FLUIDICS

SapphireLab

Swelling S100 Chip

Swelling Test Chip

The Swelling S100 Chip, coupled with our Swelling Factor test procedure, measures the expansion of oil as a result of injected gas. The Swelling Factor is the final volume divided by original volume at reservoir temperature. The test also measures the new saturation pressure of the oil and gas mixture, at complete dissolution of gas, and is used for tuning the equation of state model for gas injection EOR.



Chip Profile	
Dimensions	38 x 21 x 2.75 mm
Components	Silicon Base 1.00 mm
	Glass 1.75 mm
Supports	
Chip Holder	Liquid Confined
Ports	6

Channels	
Inlets Excluding Water/Gas/Oil	50 µm wide
	50 µm deep
Water/Gas/Oil Inlets	15-50 µm wide
	1 µm deep

Fluid Analysis Applications

Swelling Test