Chip Identification Sheet

Standard Library

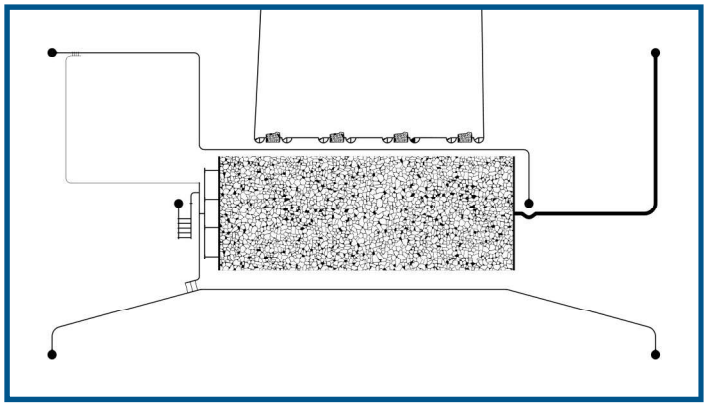
Interface FLUIDICS | SapphireLab

EOR S200 Chip

Enhanced Oil Recovery Heterogeneous Porous Media Chip with 20.1% Porosity, 1 µm Depth, 5 mD Permeability

The EOR S200 Chip is a screening tool designed to identify the most effective gas and its respective concentration for enhanced oil recovery in reservoirs. It enables visualization and quantification of oil displacement performance, while also revealing potential formation damage mechanisms caused by the injected gas.

The chip is designed for fine-tuned gas flow control in porous media, enabling studies that can be conducted over long periods of time.



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	
Gas Inlets	15 µm wide 2 µm deep
Outlet Channels	200 µm wide 1 µm deep
Other	50 µm wide 50 µm deep

Porous Media	
Dimensions	17 mm x 5 mm
Porosity	20.1%
Pore Throats	10-20 µm wide 1 µm deep
Volume	20.1 nL variable
Permeability	5 mD Calculated

Fluid Analysis Applications	
Enhanced Oil Recovery - Chemical Injection | Polymer Injection	Wax Appearance and Inhibition
Gas Injection	Scale Inhibition
Hydrogen Storage	Asphaltene Inhibition

SKU 30062