

Chip Identification Sheet

Standard Library

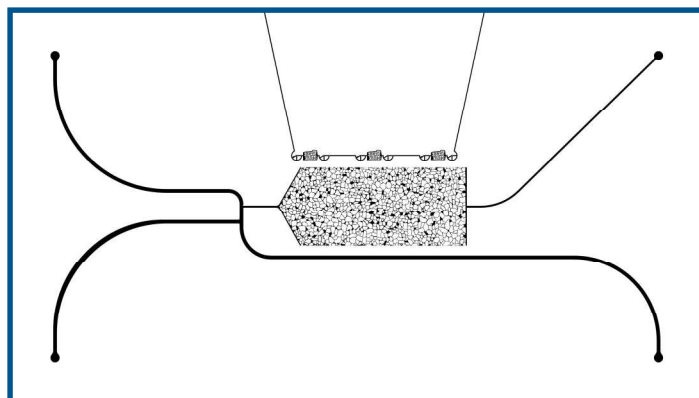


EOR S100 Chip

Enhanced Oil Recovery Heterogeneous Porous Media Chip with 21.2% Porosity, 5 μm Depth, 110 mD Permeability

The EOR S100 Chip is a platform chip used to study a wide variety of fluid interactions in porous media, including polymer injection for Enhanced Oil Recovery, wax appearance temperature, wax/scale/asphaltene inhibition, and carbon dioxide and hydrogen storage.

The chip is particularly effective as a screening tool, designed to identify the most effective polymer and polymer concentration for EOR operations. It enables visualization and quantification of oil displacement performance, while also revealing potential formation damage mechanisms caused by injected polymers.



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	4
Channels	
Inlet Channels	200 μm wide 70 μm deep
Outlet Channels	50 μm wide 5 μm deep

Porous Media	
Dimensions	17 mm x 5 mm
Porosity	21.2%
Pore Throats	10-20 μm wide 5 μm deep
Volume	43.5 nL
Permeability	110 mD calculated

Fluid Analysis Applications

Enhanced Oil Recovery - Chemical Injection | Polymer Injection
Waterflood
Wax Appearance Temperature
Wax Inhibition

Hydrogen Storage
Carbon Dioxide Storage
Scale Inhibition
Asphaltene Inhibition

SKU 30043