

Planar Cell Test Manifold Kits

fuelcellmaterials offers three different planar cell test manifold platforms for large electrolyte or anode supported SOFC testing. All kits offer a highly effective solution for testing of individual planar solid oxide fuel cells. Each kit contains all items necessary to run five tests using our NextCells. The kits have been designed for both long and short term experiments to measure properties such as fuel utilization, thermal gradients, red-ox cycling and longevity/degradation. These kits will accelerate your research and development activities.

Furnace for Planar Test Fixtures

A custom designed furnace is available

to work with the compression seals provided with our planar SOFC test fixtures. The furnace has an adjustable mechanical loading system to apply the appropriate load for testing your samples. The compression system will deliver a gas tight seal for your fuel cell testing!

SOFC Planar Test System

fuelcellmaterials offers an integrated, turnkey solid oxide fuel cell system for the researcher ready to move beyond button cell testing. Included is your choice of manifold kits along with a customized furnace and test stand. This complete system will allow you to focus on your SOFC research and not on creating the equipment needed for your experiments.



Complete Button Cell Testing

fuelceIImaterials offers an integrated, turnkey solid oxide fuel cell system. Included are the Probostat™ test fixture (shown on the back), an integrated furnace, and a test stand. This complete system saves you time and is versatile for many applications.

Robust testing equipment to expedite your research.

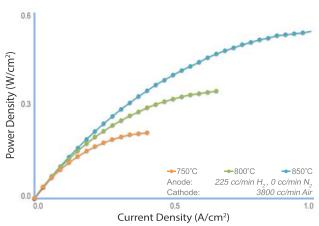
ProboStat[™] High Temperature Electrochemical Test Fixture

The ProboStatTM is a cell and sample fixture for measurements of electrical and electrochemical properties, transport parameters, and kinetics of materials, solid/gas interfaces and electrodes under controlled atmoshperes at temperatures up to 1600 °C.

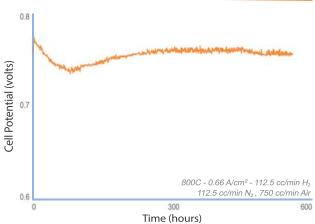
- Cost effective and industry proven alternative to developing and building your own test fixture, for repeatable and reproducible results
- Our knowledgeable technical support team is available to assist with basic setup and complex testing through video conferencing and on-site training
- Easily integrate the stand-alone unit into your existing equipment or in conjunction with a complete test station unit
- All ProboStat[™] products come with complimentary NextCells and YSZ substrates for setup and testing practice



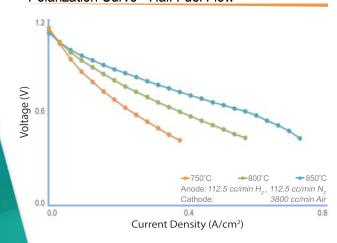




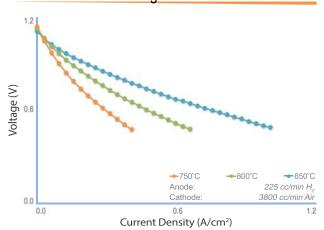
Long Term Stability Test



Polarization Curve - Half Fuel Flow



Polarization Curve - High Fuel Flow



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the buyer's risk and is not a warranty

