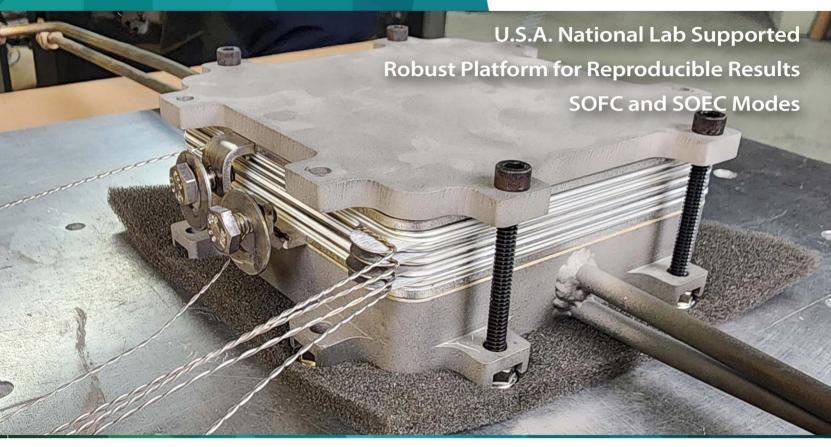
Solid Oxide Short-Stack

Test up to five cells in fuel cell mode





The Nexceris Short-Stack kit addresses a key bottleneck in SOFC and SOEC development by providing a versatile platform for validating cell innovations at the stack level using its NextCell™ planar cell. This compact, modular system features a novel manifold and robust seals, overcoming challenges in result consistency and specialized testing.

The kit's quick reversible operation between SOFC and SOEC modes significantly accelerates the prototyping, testing, and scaling of new materials and designs. All kits come with enough material to conduct three 5-cell tests.

Flexible Research Platform

The short-stack allows researchers to test between 1 and 5 solid oxide cells. The kit can operate in fuel cell or electrolysis mode. If a researcher wants to test their cells in the short-stack kit, Nexceris can custom manufacture cells. This robust platform provides confidence to researchers.





Helpful Hands Standing By

The short-stack kit is backed by Nexceris and its large team of engineers and material scientists. Training options, white papers, informative videos, and webinars are available to ensure researchers can gather essential data right out of the box.

Solid Oxide Test Fixtures



Integrated Test Systems



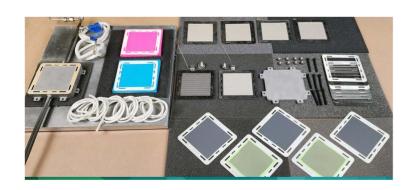


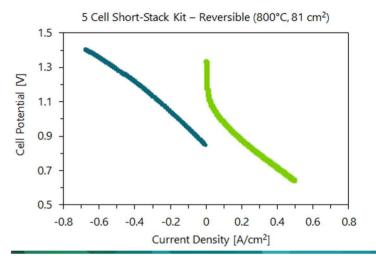


Integrated solutions from single test fixtures to complete testing systems

Up to Three 5-cell Stack Tests

Items	Quantity
NextCell™ - electrolyte supported SOC	15 ea
Test Fixture Manifolds (upper & lower)	1 pair
Welded Interconnects w/ Current Collection	15 ea
Air and Fuel Seals	30 ea
Anode & Cathode Contact Paste	100 g
Current Plates	1 pair
Silver Wire with Cersleev Insulations	1 m
Misc.: wire, nuts, bolts, Cersleev, etc.	multiple





Testing Services as Needed

The Short-Stack kit demonstrates excellent performance in both fuel cell and electrolysis modes. Key performance results include achieving a current density of 0.43 A/cm² at 0.7 V/cell in fuel cell mode and a current density of 0.6 A/cm² at 1.35 V/cell in electrolysis mode.

The Short-Stack kit uses Nexceris' NextCell™ cell platform. This ensures consistent and reliable results, addressing the challenge of replicating results. Cell results can be readily transitioned to short-stack results.



Contact info@fuelcellmaterials.com

Fuel Cell Materials is the commercial product brand of Nexceris. Nexceris has thirty (30) years of experience innovating products, services, and intellectual property in the electrochemical and catalyst spaces.



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