



SOFC/SOEC HOUSING

- Cell housing for SOFC/SOEC MEA and component evaluation
- Available for standard cells with 4 x 4 cm² active area and button cells
- Unique sealing concept allows non-destructive cell testing
- Fully ceramic housing avoids contamination during extended test runs
- Easily integrates into the Evaluator test station platforms
- Performs automated testing under unattended operation
- Time saving assembling with repeatable accuracy
- Allows impedance analysis

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TrueXessory-HT

MATERIAL

Aluminum oxide

COLLECTORS

Anode collector	Nickel mesh
Cathode collector	Platinum mesh
Current collectors	Inconel rods through the mechanical load rod
Wiring between meshes and collectors	Platinum wire

HEATING & TEMPERATURE

Maximum temperature	1,000 °C
Maximum heating rate	5 K/min
Temperature measurement	Integrated thermocouple

GENERAL FACTS

Flow field structure	Parallel channels
Cell size	5 x 5 cm ² (4 x 4 cm ² active area) Button cells up to 4cm diameter
Applicable MEA types	ESC, ASC, MSC

MATERIAL

Force control
TrueData-EIS (impedance analyzer)
Reversible load operation (electrolysis and fuel cell mode)

The TrueXessory-HT SOFC cell housing is developed for testing of single SOFC and SOEC MEAs with 4 x 4 cm² active cell areas as well as for button cells. The unique sealing concept allows complete non-destructive testing with very high reproducibility. Together with our Evaluator-HT test stations, the cell housing is a powerful tool for all testing areas including: basic research, material optimization, quality testing, benchmarking and lifetime testing of SOFC and SOEC MEAs.

The housing is made of precise, surface-ground ceramic components and does therefore not only reduce the retrofitting time and effort, but also avoids any contamination.

Please feel free to download the latest information available at www.horiba-fuelcon.com. If you have any questions, please do not hesitate to contact us. We will be happy to support you and discuss your testing requirements!

HORIBA FuelCon reserves the right to make changes at any time without notice.

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