



ECC
Electrochemical Cell

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Test equipment for electrochemistry

The ECC Electrochemical Cell is considered a standard test cell for the characterization of lithium ion battery chemistry as well as other aprotic chemistries. With the ECC cell design we have adapted the advantages of the industry's standard button (coin) cell while avoiding its serious shortcomings for everyday lab usage. The ECC cell design is the result of many years experience and iterative improvement in lithium ion battery and supercapacitor electrode testing. It is perfectly suited for voltammetry and impedance as well as cycle life testing. The ECC can be optionally equipped with a reference electrode to control or monitor half cell potentials. Also available is a special version for aqueous systems.

Features

- High precision 18 mm diameter sandwich geometry with <0.1 mm concentricity
- Adjustable, reproducible and homogeneous mechanical pressure on electrodes
- Reliable low leakage sealing with PE washers, He leakage rate <10E-8 std cm³/s
- Easy and reliable electrolyte filling either upon assembly or afterwards via syringe
- Fast assembly and dismantling, and easy cleaning of cell components
- Electrodes are easily accessible for post-mortem analysis
- Reusable cell components except for PE sealing
- Small and defined electrolyte volume down to 0.1 cm³ due to minimized dead volume

- Materials in media contact are titanium and PEEK
- Optionally available with reference electrode
- Special version available for aqueous systems (with gold current collectors)
- “plug and play” multi-cell fixture available for operation inside temperature chamber or wall mounting, and for connection to a multi-channel potentiostat or battery tester

Order Codes:

ECC-Std	2-electrode test cell for aprotic systems
ECC-Ref	3-electrode test cell for aprotic systems with reference
ECC-Aqu	3-electrode test cell for aqueous systems with reference



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