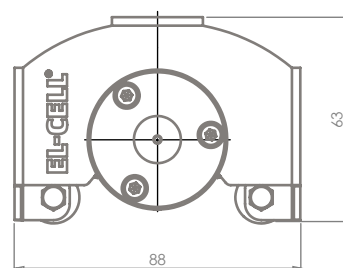
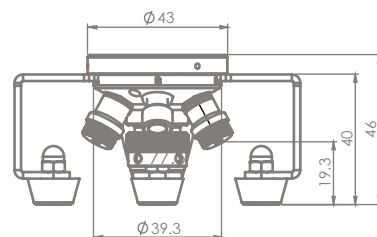




Measurements in mm:



ECC-Opto-Std

Test cell for optical and X-ray characterization in the reflective mode

The ECC-Opto-Std test cell is dedicated to the inspection of electrodes by optical methods such as light microscopy or Raman spectroscopy working in the reflection mode.

Key Features

- Defined mechanical pressure on electrode stack
- Reliable low leakage sealing with EPDM O-rings and PTFE ferrules
- Easy and reliable electrolyte filling upon assembly
- Fast assembly and dismantling and easy cleaning of cell components
- Electrodes are easily accessible for post-mortem analysis
- Materials in media contact are stainless steel 1.4404, PEEK and EPDM

Use Cases:

- 2- or 3-electrode setup
- Light microscopy
- Raman spectroscopy
- X-ray
- Aprotic electrolytes

Product website:



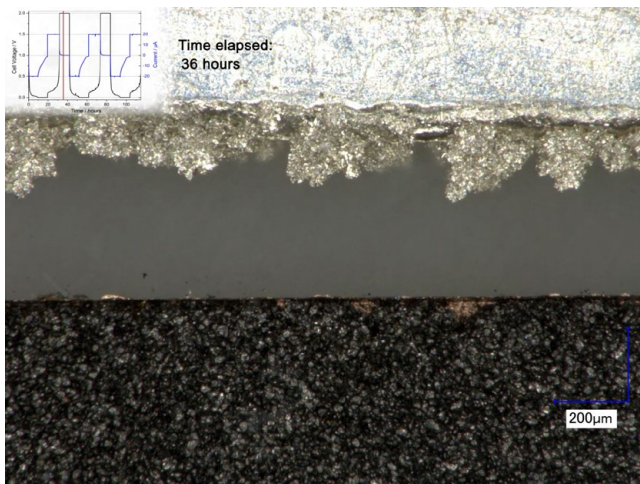
Manual (PDF):



Specifications

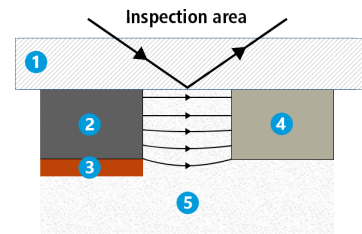
Height	46 mm
Width	88 mm
Depth	63 mm
Weight	0.2 kg
Separator diameter	10 mm
Electrode diameter	10 mm
Electrolyte volume	approx. 0.1 ml
Operational temperature	-20 to 70 °C

Sample test results

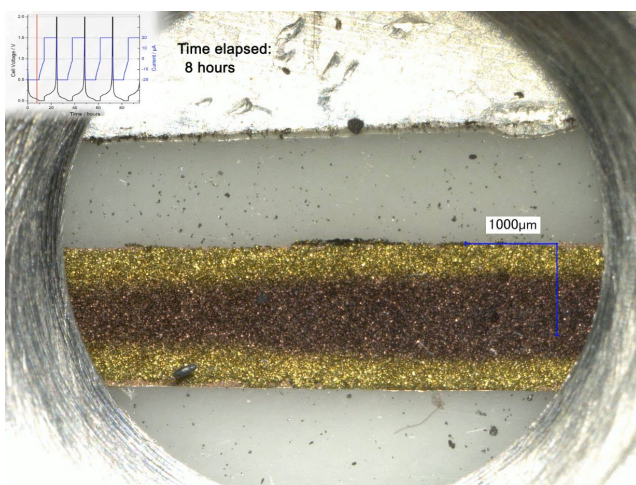


Visualizing lithium dendrite growth in a graphite vs lithium metal cell

- 1 Optical window (Sapphire glass)
- 2 Graphite (Working electrode)
- 3 Current collector (Copper foil)
- 4 Lithium metal (Counter/Reference electrode)
- 5 Separator (Glass fiber)

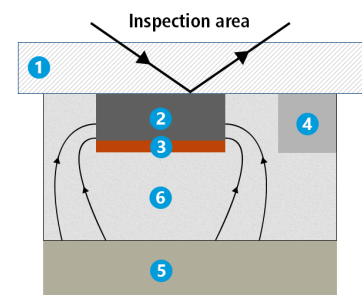


More details & video on our website:



Graphite electrode sandwiched with an LFP counter electrode

- 1 Optical window (Sapphire glass)
- 2 Graphite (Working electrode)
- 3 Copper foil (Current collector)
- 4 Lithium metal (Reference electrode)
- 5 Lithium iron phosphate (Counter electrode)
- 6 Separator (Glass fiber)



More details & video on our website:

