DATASHEET

Two-Electrode Battery Test Cell | Titanium Body, Spring-Loaded, 20mm Electrode

Spring-loaded two-electrode test cell with high-purity titanium body, PEEK insulation and gold-plated terminals. Assemble in a glovebox, cycle in open air. Fits 20 mm electrodes.

APPLICATION

Suitable for: Li-ion and alkali-metal electrode research; pairing with any battery cycler or potentiostat; 20 mm diameter electrodes.

KEY SPECS

- Body Material: High-Purity Titanium
- Insulation: PEEK
- Terminals: Copper, Gold-Plated
- Electrode Diameter: 20 mm

1. Specifications

Body Material	High-Purity Titanium
Insulation	PEEK
Terminals	Copper, Gold-Plated
Electrode Diameter	20 mm
Cell Dimensions	φ55 × 23 mm
Loading	Spring-Loaded
Sealing	O-Ring, Airtight
Environment	Glovebox Assembly, Ambient Use

2. Product Details

The LabCore Two-Electrode Battery Test Cell is a spring-loaded research fixture for cycling and evaluating electrode materials under controlled stacking pressure.

Construction. High-purity titanium body with PEEK insulation and gold-plated copper terminals for stable, low-resistance contact. A chemically resistant O-ring seals the cell airtight with a simple screw-down — no torquing tools required.

Designed for glovebox workflows. Assemble inside an argon glovebox, then run cycling or characterization in open air. Quick-release screws let you retrieve the sample after testing without damaging the electrode stack.

Typical applications

- Coin-cell-style electrode evaluation and cycle-life testing
- Electrolyte screening (separator membrane user-supplied)
- Teaching demonstrations of battery assembly and testing

3. Order / Quote

Model	Pack Size	Availability
LC-B002-TI-20	1 set: titanium cell body, PEEK insulation, gold-plated copper tabs, spring hardware. Separator membrane not included (user-supplied).	Made to order (quote)

Current pricing and ordering: labcorematerials.com/products/two-electrode-battery-test-cell/

4. Shipping & Compliance

- Ships as empty hardware. No electrolyte, no lithium. Not classified as dangerous goods. Ships from China via international express (UPS/DHL/FedEx), freight confirmed at quotation.

Contact

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www.labcorematerials.com/products/two-electrode-battery-test-cell/