

Solid State Zinc Air Battery Test Fixture Flexible Zinc Air Mold

Item Number: BE07



Introduction

Transparent solid state zinc air battery test fixture with flexible zinc air mold design, compact assembly, 1 to 4 cm² reaction areas, 0.2 cm electrode spacing, customizable construction, and clear observation for zinc air battery research and practical laboratory evaluation.

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Application	Description	Key Benefit
Solid-State Zinc-Air Battery Research	Assemble positive and negative electrodes with a solid electrolyte in a controlled layered configuration for laboratory cell studies.	Provides a compact and clearly observable platform for experimental assembly.
Zinc-Air Electrode Evaluation	Compare electrode structures or material combinations using the available 1 cm ² , 2 cm ² , and 4 cm ² reaction-area configurations.	Supports testing at different active-area scales without changing the basic fixture concept.
Solid Electrolyte Membrane Studies	Use the electrolyte membrane as the spacing-defining element between the positive and negative electrodes.	Connects the assembly gap directly to electrolyte membrane thickness.
Flexible Zinc-Air Mold Development	Apply the mold format in research workflows developing flexible or customized zinc-air battery structures.	Offers a simple base arrangement with customization available for project-specific needs.
Battery Materials Screening	Prepare small-area battery assemblies for early-stage investigation of materials and cell configurations.	Compact dimensions help organize small-scale laboratory experiments.
Academic and Advanced Materials Research	Support teaching, laboratory demonstrations, and exploratory research involving solid-state electrochemical cells.	Transparent construction improves visibility during setup and inspection.

Parameter	Specification	Notes
Product Item Number	BE07	Site-facing identifier for this product.
Product Type	Solid-state zinc-air battery test fixture and flexible zinc-air mold	Designed for laboratory assembly and observation of solid-state zinc-air battery structures.
Mold Material	Organic glass	Smooth and transparent surface.
Overall Width × Height	6 × 6 cm	Compact fixture dimensions provided in the reference materials.
Positive-to-Negative Electrode Distance	0.2 cm	The specific distance is determined by the thickness of the electrolyte membrane.
Available Configuration	BE07-1 cm ²	Reaction area: 1 cm ² .
Available Configuration	BE07-2 cm ²	Reaction area: 2 cm ² .
Available Configuration	BE07-4 cm ²	Reaction area: 4 cm ² .
Reaction Area Options	1 cm ² , 2 cm ² , and 4 cm ²	Select the configuration according to the required reaction area.
Assembly Arrangement	Positive electrode, negative electrode, and solid electrolyte stacked directly above the No. 1 plate	Supports convenient assembly of the layered cell structure.
Customization	Supported	Contact the supplier to discuss project-specific requirements.
Surface Characteristics	Smooth and transparent	Facilitates observation of the assembled components.

Parameter	Specification	Notes
Alcohol Handling	Do not place the organic-glass plate directly in ethanol or alcohol solution; do not pour alcohol onto the plate surface	These actions may cause surface cracking or damage. If oil is present, use a tissue with a small amount of alcohol to clean the surface.
Ultrasonic Cleaning	Prohibited	Do not clean the organic-glass plate with ultrasonic equipment.