

Xrd Testing Solid State Battery Device For Electrolyte Pellet Analysis

Item Number: BE10



Introduction

XRD testing solid-state battery device for 16mm battery samples supports 0-6mm thickness and a 50mm fixture diameter with adaptable mounting for laboratory diffraction workflows. Designed for electrolyte pellet preparation and adaptable laboratory platform integration.

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Application	Description	Key Benefit
Solid-State Battery Research	Position and examine compatible solid-state battery specimens during XRD testing, using the defined 16 mm internal diameter and 0-6 mm thickness range.	Establishes a practical sample interface for battery material characterization.
Electrolyte Pellet Evaluation	Press a separate 16 mm electrolyte pellet before transferring the prepared specimen to the testing fixture for diffraction analysis.	Separates pellet preparation from measurement and clarifies the laboratory workflow.
Battery Materials Development	Support iterative evaluation of electrolyte and related solid-state battery materials during research and development programs.	Provides repeatable dimensional references for comparing compatible specimens.
XRD Platform Integration	Match the fixture with different instrument bases or use a customer-supplied height-adjustable platform to achieve the required testing height.	Offers a flexible route for adapting the unit to existing laboratory equipment.
Advanced Materials Characterization	Use the fixture as part of a materials research setup where controlled positioning and sample dimensions are important for XRD measurements.	Helps laboratories plan installation around known fixture and optical-slot dimensions.

Parameter	Specification
Product Item Number	BE10
Intended test application	XRD testing of solid-state battery-related samples
Battery inner diameter	16 mm
Compatible sample thickness	0-6 mm
Fixture diameter	50 mm
Height from bottom to center optical slot	24 mm
Total height	30 mm
Electrolyte pellet requirement	A separate mold is required to press the 16 mm electrolyte pellet
Base configuration	Different equipment models require different base configurations; contact technical support for matching assistance
Customer information for base matching	Provide a photograph of the testing platform and measure the dimensions required for installation
Alternative installation method	The customer may purchase a height-adjustable platform and raise the unit to the required testing height