

Optical Testing Cross Section Aqueous Battery Device For Microscopy Raman And Infrared Analysis

Item Number: BE13



Introduction

Optical testing cross section aqueous battery device for microscopy Raman infrared analysis dendrite observation and conductivity measurement in advanced battery research applications

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Application	Description	Key Benefit
Aqueous Battery Cross Section Analysis	Position aqueous battery specimens for cross-sectional examination using a compatible optical or spectroscopic setup.	Supports direct study of internal structures and interfaces.
Optical Microscopy Observation	Use the fixture with an optical microscope to inspect visible features across the battery cross section.	Provides a practical route for visual assessment of localized changes.
Raman Spectroscopy of Battery Interfaces	Combine the unit with Raman analysis to examine material characteristics in selected cross-sectional regions.	Enables complementary chemical or structural investigation.
Infrared Cross Section Testing	Use the device with infrared instrumentation for analysis of suitable aqueous battery cross-sectional areas.	Adds infrared characterization to the battery research workflow.
Dendrite Growth Research	Study aqueous battery behavior while the wrapped cylindrical structure helps avoid dendrite growth on the metal surface.	Reduces a potential surface-related disturbance during observation.
Conductivity Measurement Studies	Use the 6 mm diameter electrode contact area as the defined area basis for conductivity calculations.	Simplifies area-related calculation and improves measurement clarity.
Advanced Materials Research	Apply the unit in university, industrial, or institutional laboratories investigating aqueous electrochemical materials.	Brings microscopy and spectroscopy access into a compact test fixture.

Parameter	Specification
Product Item Number	BE13
Product Type	Optical testing cross-section aqueous battery device
Compatible Battery Inner Diameter	≤12 mm
Compatible Battery Thickness	≤6 mm
Fixture Length	120 mm
Fixture Height	28 mm
Fixture Width	26 mm
Structural Design	Wrapped cylindrical structure
Dendrite-Related Design Function	Helps avoid dendrite growth on the metal surface
Metal Impedance Function	Can reduce, to a certain extent, interference from metal impedance
Contact Electrode Diameter	6 mm

Parameter	Specification
Conductivity Measurement Function	The contact electrode area facilitates area calculation during conductivity measurement
Optical Testing Compatibility	Optical microscope
Spectroscopic Testing Compatibility	Raman and infrared instruments
Optional Inner Diameter	12 mm, 14 mm, 16 mm