

4680 Cylindrical Battery Detachable Split Test Kit

Item Number: BE08



Introduction

Detachable split test kit for 4680 cylindrical battery research with corrosion resistant sealing, stainless steel end caps, PTFE insulation, and secure spring loaded cell fastening for repeatable laboratory testing and flexible advanced materials workflows

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Application	Description	Key Benefit
4680 Cylindrical Battery R&D	Use the fixture to position and retain 4680 cylindrical cells during laboratory evaluation, assembly preparation, and controlled test setup.	Provides a defined mechanical enclosure for repeatable cell handling.
Electrolyte-Related Cell Studies	The fluoro rubber O-ring and PTFE cylindrical component support fixture use in workflows where contact with battery electrolyte must be considered.	Helps select materials suited to electrolyte-corrosive environments.
Battery Cell Assembly Development	Use the detachable split structure to open the fixture, inspect cell placement, and reassemble the unit during process development.	Simplifies access and supports efficient iteration during assembly research.
University Battery Research	Academic laboratories can use the compact kit as a cell-holding component within broader battery research equipment and experimental platforms.	Offers a defined, reusable fixture format for repeated studies.
Advanced Materials Testing	Researchers studying material behavior in cylindrical battery-related structures can use the unit as a controlled mechanical support component.	Supports consistent specimen or cell positioning within laboratory workflows.
Custom Battery Test Integration	The kit can be incorporated into a customer-developed test arrangement where the cell requires spring-assisted fastening and a detachable enclosure.	Provides a practical starting point for customized equipment integration.

Parameter	Specification
Product item number	BE08
Product type	4680 cylindrical battery detachable split test kit
Applicable battery format	4680 cylindrical battery cell
Upper end-cap material	304 stainless steel
Lower end-cap material	304 stainless steel
End-cap outside diameter	68 mm
Middle cylindrical component material	PTFE
Optional customized cylindrical component material	PEEK
Cylindrical component inner diameter	46 mm
Cylindrical component height	80 mm
Cylindrical component outer diameter	55 mm
Cylindrical component external height	80 mm
O-ring material	Fluoro rubber

Parameter	Specification
O-ring characteristic	Resistant to electrolyte corrosion
Top-cover fastening mechanism	Built-in spring for securing the cell
Fixing screw specification	M4
Overall external dimensions	Φ68 mm × H106 mm