

Stainless Steel 304 CR2450 Coin Cell Cases With Gaskets For Battery Research

Item Number: FZ04



Introduction

Engineered for advanced electrochemical research, these precision 304 stainless steel CR2450 coin cell cases provide superior corrosion resistance and airtight sealing. Complete sets include cathode cans, anode cases, and polypropylene gaskets to ensure reliable battery performance and repeatable test data.

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Application	Description	Key Benefit
Thick-Film Lithium-Ion Battery Research	Evaluation of high-capacity cathode and anode formulations requiring elevated active material mass loadings.	Ample 5.0 mm vertical cavity eliminates excessive mechanical compression on thick electrode structures.
Solid-State Electrolyte Testing	Prototyping solid-state cells utilizing ceramic or compressed polymer electrolyte discs requiring sustained internal stack pressure.	Robust casing walls maintain dimensional stability without warping under uniform axial crimping force.
Sodium-Ion & Potassium-Ion Systems	Characterization of emerging non-lithium electrode materials and corresponding novel liquid/gel electrolyte formulations.	Passivated 304 stainless steel surfaces resist localized corrosion from alternative salts and corrosive ionic species.
Supercapacitor & Hybrid Capacitor R&D	Assembly and cycle-life testing of double-layer capacitive materials and pseudocapacitive electrode composites.	Low internal contact resistance and airtight seals enable ultra-low ESR measurements and extended life testing.
Electrolyte Formulation & Additive Screening	Long-term stability testing of high-voltage electrolytes, anti-gassing additives, and non-flammable solvent blends.	Reliable hermetic enclosure prevents volatile solvent leakage and ambient moisture contamination over months of testing.
Standard Laboratory Half-Cell Prototyping	Routine electroactive material screening against lithium foil or sodium reference counter electrodes.	Complete assembly sets streamline experimental throughput with standardized, highly repeatable cell hardware.

Variant Identifier	Standard Model	Outer Diameter (mm)	Total Height / Thickness (mm)	Material Composition	Gasket Type	Standard Package Contents
FZ04-CR2450	CR2450	24.0 ± 0.05	5.0 ± 0.05	304 Stainless Steel	Polypropylene (PP)	Cathode Can, Anode Cap, PP Gasket
FZ04-CR2325	CR2325	23.0 ± 0.05	2.5 ± 0.05	304 Stainless Steel	Polypropylene (PP)	Cathode Can, Anode Cap, PP Gasket
FZ04-CR2032	CR2032	20.0 ± 0.05	3.2 ± 0.05	304 Stainless Steel	Polypropylene (PP)	Cathode Can, Anode Cap, PP Gasket
FZ04-CR2025	CR2025	20.0 ± 0.05	2.5 ± 0.05	304 Stainless Steel	Polypropylene (PP)	Cathode Can, Anode Cap, PP Gasket
FZ04-CR2016	CR2016	20.0 ± 0.05	1.6 ± 0.05	304 Stainless Steel	Polypropylene (PP)	Cathode Can, Anode Cap, PP Gasket
FZ04-CR1820	CR1820	18.0 ± 0.05	2.0 ± 0.05	304 Stainless Steel	Polypropylene (PP)	Cathode Can, Anode Cap, PP Gasket
FZ04-CR1632	CR1632	16.0 ± 0.05	3.2 ± 0.05	304 Stainless Steel	Polypropylene (PP)	Cathode Can, Anode Cap, PP Gasket

Variant Identifier	Standard Model	Outer Diameter (mm)	Total Height / Thickness (mm)	Material Composition	Gasket Type	Standard Package Contents
FZ04-CR1620	CR1620	16.0 ± 0.05	2.0 ± 0.05	304 Stainless Steel	Polypropylene (PP)	Cathode Can, Anode Cap, PP Gasket
FZ04-CR1616	CR1616	16.0 ± 0.05	1.6 ± 0.05	304 Stainless Steel	Polypropylene (PP)	Cathode Can, Anode Cap, PP Gasket
FZ04-CR1220	CR1220	12.5 ± 0.05	2.0 ± 0.05	304 Stainless Steel	Polypropylene (PP)	Cathode Can, Anode Cap, PP Gasket

Engineering Parameter	Specification Value
Base Material Grade	Certified AISI 304 Stainless Steel
Gasket Material	High-Density Polypropylene (PP)
Corrosion Resistance	Passivated surface resistant to typical LiPF ₆ , LiTFSI, and NaPF ₆ electrolytes
Operating Temperature Range	-40°C to 120°C (dependent on internal separator and electrolyte limits)
Compatible Crimping Dies	Standard commercial hydraulic and electric coin cell crimping dies
Surface Finish	Smooth, burr-free deep-drawn finish