

TECHNICAL DATA SHEET

CR2032 Coin Cell Case Sets

100 Sets per Package | LabCore Materials

1. PRODUCT OVERVIEW

The LabCore Materials CR2032 Coin Cell Case Set is a precision-machined component kit for CR2032-format electrochemical test cells. All components are fabricated from high-purity 304 stainless steel (SS304), ultrasonic-cleaned, and delivered in a glovebox-ready state. This kit provides a complete mechanical housing solution for Li-ion, sodium-ion, and solid-state battery research.

2. PRODUCT IDENTIFICATION

Product Name: CR2032 Coin Cell Case Sets (100 Sets)

Brand: LabCore Materials

Package Quantity: 100 Sets

Cell Format: CR2032 (20 mm diameter * 3.2 mm height)

3. MATERIAL SPECIFICATIONS

Material Grade: High-Purity 304 Stainless Steel (SS304)

Composition: Fe, Cr, Ni, C, Mn, Si, P, S

Magnetic Susceptibility: Non-ferromagnetic (austenitic)

Electrolyte Compatibility: EC, DMC, EMC, PC (common Li/Na organic solvents)

4. COMPONENT DIMENSIONS

Component	Dimensions	Notes
Positive Case	Standard CR2032	Matches CR2032 footprint exactly
Negative Case	Standard CR2032	Matches CR2032 footprint exactly
Spring	15.4 mm (OD) * 1.1 mm thick	Funnel-shaped; uniform contact pressure
Spacer	15.8 mm (OD) * 0.5 mm thick	Optimised for standard electrode stack

5. INTENDED APPLICATION

Suitable for use in laboratory-scale electrochemical cell assembly, including:

- Lithium-ion (Li-ion) half-cell and full-cell assembly
- Sodium-ion (Na-ion) battery testing and characterisation
- Solid-state battery (SSB) prototype fabrication
- Academic and industrial R&D electrochemical cycling experiments

6. CLEANLINESS & PRE-TREATMENT

Cleaning Process: Multi-stage ultrasonic cleaning with high-purity DI water and anhydrous ethanol

Drying: Oven-dried prior to packaging; moisture-free at dispatch

Glovebox Ready: Direct use in Ar / N glove-boxes without additional pre-treatment

7. STORAGE & HANDLING

Environment: Dry, low-humidity (recommended RH < 30%)

Anti-Static: Store in anti-static bags or containers

Temperature: 15 - 30 °C; avoid thermal cycling or moisture exposure

Handling: Use clean gloves or clean-room tweezers; avoid contact with inner surfaces

8. DISCLAIMER

This product is intended for research and development use only. LabCore Materials makes no warranty, express or implied, regarding fitness for any purpose beyond the described application scope. Users are solely responsible for compliance with all applicable safety regulations when handling battery materials.