

FluxBatteryHub

Technical Data Sheet

Si-C Anode Sheet with Copper Foil for Battery Research

Document ID: TDS-LA023 | Document type: Product Technical Datasheet

1. Product Identification

Field	Information
Product name	Si-C Anode Sheet with Copper Foil for Battery Research
SKU / product family	LA023 series
Product category	Pre-coated electrode
Product type	Si-C Anode Sheet
Material / chemistry	Copper
CAS number	Not specified
Document type	Product Technical Datasheet

2. Product Description

Si-C Anode Sheet with Copper Foil for Battery Research is a pre-coated electrode for battery and electrochemical research. It is intended for laboratory-scale evaluation, component selection, sample preparation, or cell assembly consistent with the product category. The listed material or chemistry is Copper. Refer to the Technical Data and Available Configurations sections for verified reference values and SKU formats. Confirm compatibility with the intended electrolyte, process conditions, and cell design before purchase or validation.

3. Technical Data

Technical values are provided for product selection reference and may vary by batch.

Parameter	Specification
Active Material	Si/C 1800 (5%) + Graphite (95%)
Specific Capacity	420 mAh/g (0.005-2.000 V)
Coating Type	Single-Side Coated
Coating Area Density	4.80 mg/cm ² (Tolerance ±2.0%)
Current Collector	Carbon-Coated Copper Foil
Current Collector Thickness	9 µm
Current Collector Area Density	7.25 mg/cm ²
Active Material Ratio	95.0%
Reference Compacted Density	1.10 g/cc
Areal Capacity	1.9 mAh/cm ²
Sheet Size	100 × 100 mm

4. Available Configurations

SKU	Configuration / Pack Format
LA023-1	5 Sheets Per Pack (un-calendered)
LA023-2	5 Sheets Per Pack (calendered)

5. Intended Applications

- Battery electrode preparation and current collector evaluation
- Coin cell and pouch cell prototyping
- Laboratory-scale electrochemical testing

6. Storage and Handling

Store in a clean, dry environment at room temperature unless otherwise specified by supplier documentation. Keep away from moisture, contamination, direct sunlight, and incompatible chemicals.

7. Safety and Regulatory Information

This TDS is not a Safety Data Sheet. For SDS, hazard classification, exposure controls, transport, storage, handling, and disposal information, please contact FluxBatteryHub for available supplier documentation.

8. Notes and Disclaimer

Technical values are provided for product selection and research reference only. Typical, nominal, or reference values are not release specifications and are not current-batch COA results. Final specifications may vary by batch and should be confirmed with FluxBatteryHub before purchase, process validation, or regulated use.