

FluxBatteryHub

Technical Data Sheet

NCM811 Cathode Sheet (Aluminum Foil, Single-Side Coated)

Document ID: TDS-LA025 | Document type: Product Technical Datasheet

1. Product Identification

Field	Information
Product name	NCM811 Cathode Sheet (Aluminum Foil, Single-Side Coated)
SKU / product family	LA025 series
Product category	Pre-coated electrode
Material / chemistry	Aluminum
CAS number	Not specified
Document type	Product Technical Datasheet

2. Product Description

NCM811 Cathode Sheet (Aluminum Foil, Single-Side Coated) 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 Aluminum. 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
Product Type	NCM811 Electrode Sheet
Electrode Size	10 × 10 cm
Current Collector	Aluminum Foil
Current Collector Thickness	12 μm
Current Collector Areal Density	3.40 mg/cm ²
Active Material	Nickel-Cobalt-Manganese NCM811 (Single Crystal)
Active Material Ratio	94.5%
Compaction Density	2.50-3.35 g/cc
Specific Capacity	188 mAh/g (3.00-4.30 V)
Areal Capacity	3.82 mAh/cm ²
Coating Areal Density	21.50 mg/cm ² (Tolerance ±2.0%)

4. Available Configurations

SKU	Configuration / Pack Format
LA025-1	Width 100 mmLength 100 mm (non-calendered)
LA025-2	Width 100 mmLength 100 mm (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.