

FluxBatteryHub

Technical Data Sheet

316L Stainless Steel Foil

Document ID: TDS-LA045 | Document type: Product Technical Datasheet

1. Product Identification

Field	Information
Product name	316L Stainless Steel Foil
SKU / product family	LA045
Product category	Metal foil / current collector
Material / chemistry	Stainless steel
CAS number	Not specified
Document type	Product Technical Datasheet

2. Product Description

316L Stainless Steel Foil is a metal foil / current collector 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 Stainless steel. 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
Item	Details
Product Name	316L Stainless Steel Foil
Size	0.02 × 185 mm × 1 m
Tensile Strength	≥480 MPa
Conditional Yield Strength	≥177 MPa
Elongation Rate	≥40%
Cross-Section Shrinkage Rate	≥60%
Hardness	≤187 HB / ≤90 HRB / ≤200 HV
Density	7.98 g/cm ³
Specific Heat Capacity Ratio (20°C)	0.502 J/(g·K)

4. Available Configurations

SKU	Configuration / Pack Format
LA045	Default Title

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.