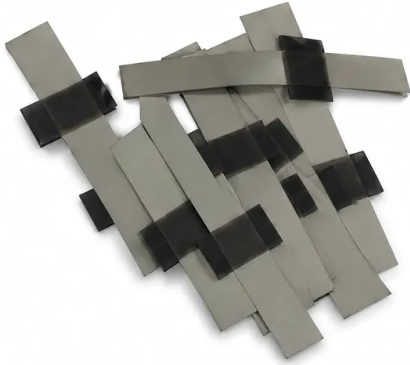


8Mm Wide Aluminum Battery Tab Customizable Size Polymer Battery Cathode Material

Item Number: FZ35



Introduction

Source high purity 8mm wide aluminum battery tabs for polymer cell manufacturing. Featuring 99.99% Al composition and 10A current handling, this cathode material delivers customizable dimensions, low internal resistance, and superior ultrasonic weldability for precision battery research and production.

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Application	Description	Key Benefit
Polymer Lithium-Ion Pouch Cells	Serves as the primary positive terminal lead welded directly to internal aluminum cathode current collector foils.	Minimizes internal contact resistance and ensures hermetic sealing through outer laminate packaging.
Wearable and Smart Device Batteries	Applied in ultra-thin, flexible polymer batteries for smartwatches, fitness trackers, and hearables.	Ultra-light 80mg unit mass and ductile form factor maintain high volumetric and gravimetric energy density.
Medical Device Power Systems	Used in high-reliability rechargeable pouch packs for portable diagnostic tools, monitoring devices, and infusion pumps.	High material purity prevents internal contamination, ensuring predictable cycle life and operational safety.
Drone and RC High-Discharge Packs	Integrated into high-drain LiPo packs requiring stable power delivery under dynamic peak loads.	10A continuous rating maintains thermal stability without localized overheating at the tab interface.
Academic and Industrial Battery R&D	Utilized as standardized cathode terminal stock in pouch cell prototyping lines and novel active material qualification.	Highly reproducible 99.99% Al composition eliminates material variables during electrochemical testing.
Portable Power Tools and Robotics	Implemented in multi-cell series/parallel pouch modules driving compact brushless DC motor systems.	Robust mechanical durability withstands continuous mechanical vibration and cyclic thermal expansion.
Solid-State Pouch Cell Prototypes	Utilized as the positive lead connection in advanced solid-state electrolyte pouch cell development.	Excellent interface flatness and surface purity ensure stable contact with next-generation solid cathode stacks.

Parameter	Specification (FZ35)
Product Identification	FZ35
Material Composition	Aluminum (Al) ≥ 99.99% Purity
Function / Polarity	Positive Cathode Lead / Tab
Conductor Width	8.0 mm (±0.1 mm)
Conductor Length	48.0 mm (Customizable upon request)
Conductor Thickness	0.15 mm (±0.01 mm)
Maximum Continuous Current	10 A
Unit Net Weight	~80 mg / piece
Surface Quality	Smooth, flat, free of oil, oxidation spots, and edge burrs
Joining Compatibility	Ultrasonic Metal Welding / Laser Welding
Packaging Unit	20 pieces / sealed protective bag

Parameter	Specification (FZ35)
Customization Availability	Custom lengths, widths, tab film/sealant integration, and pre-cut geometries