

High Purity Nickel Strip Customizable Width For Battery Tab Welding And Pack Assembly

Item Number: FZ37



Introduction

Source high purity nickel strip with customizable width for battery research, spot welding, and industrial pack assembly. Engineered with over ninety-nine point nine percent purity, this conductive material ensures low electrical resistance, excellent corrosion protection, and consistent weldability.

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Application	Description	Key Benefit
Lithium-Ion Battery Tab Interconnects	Connecting positive and negative terminal tabs in cylindrical (18650, 21700, 4680) and prismatic cell arrays via spot welding.	Ultra-low contact resistance minimizes heat generation during high-amperage charging and continuous discharge cycles.
EV & Hybrid Battery Module Assembly	Joining grouped cell blocks into high-capacity strings for electric mobility powertrains and power storage modules.	High mechanical fatigue resistance withstands continuous vehicular vibration and thermal expansion stresses.
Power Tool & Drone Battery Packs	Providing current collector paths in compact, high-vibration battery systems operating at peak current bursts.	High tensile integrity and ductility prevent tab cracking under intense mechanical shock and thermal cycling.
Energy Storage Systems (ESS)	Bridging large-format battery racks in stationary grid storage and uninterruptible power supply (UPS) banks.	Superior chemical stability and oxidation resistance ensure long operating lifetimes exceeding ten years without joint degradation.
NiMH & NiCd Cell Manufacturing	Serving as primary bridge conductors, terminal plates, and series-parallel interconnects in industrial rechargeable batteries.	Native metallurgical compatibility delivers seamless resistance welding without hazardous fumes or alloy embrittlement.
Precision Electronic Hardware	Fabricating custom lead frames, grounding straps, electromagnetic shielding tabs, and specialized sensor connectors.	Readily stampable and solderable material enables tight dimensional tolerances in miniaturized circuit enclosures.
Laboratory Materials & Fuel Cell R&D	Utilizing high-purity conductive substrate strips for experimental electrode fabrication, electroplating tests, and fuel cell current collectors.	High chemical baseline purity eliminates foreign metallic contamination in sensitive analytical and experimental trials.

Parameter	Specification (Product Item: FZ37)
Product Classification	High Purity Nickel Strip / Ribbon
Item Identifier	FZ37
Nickel Purity (Ni Content)	> 99.9%
Standard Width Options	5 mm, 6 mm, 8 mm, 10 mm, 12 mm, 15 mm, 20 mm
Custom Width Capability	Fully customizable to user-defined tolerances upon request
Standard Thickness Options	0.1 mm, 0.15 mm, 0.2 mm
Standard Packaging	1 kg / roll (Continuous coil on standard spool)
Edge Condition	Precision slit, smooth, burr-free
Surface Finish	Bright, clean, and free of oil residue, oxidation, or surface flaws
Joining Methods	Resistance spot welding, ultrasonic welding, laser micro-welding, soldering (with appropriate flux)
Mechanical Temper	Semi-hard / Annealed (Optimized for bending and tab forming)