# Custom 0.12mm 0.15mm 0.2mm 0.25mm 0.3mm Pure Nickel Strip 6mm 8mm 10mm For 18650 21700 Battery Welding

Our Product Introduction

## Basic Information

- Place of Origin: China
- Brand Name: Victory
- Model Number: Ni200 Ni201
- Minimum Order Quantity: 2 Kg
- Price: 1 - 49 kilograms US$35.00
- Packaging Details: Plastic film or waterproof woven bag inside, wire packed in spool put into carton,coil wire or strip wire put into wooden case
- Delivery Time: 7 to 20 Days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

## Product Specification

- Type: Pure Nickel Strip
- Density (g/cm3): 8.9 G/cm3
- Melting Point(℃): 1435-1446 ℃
- Condition: Bright,soft
- Surface: Bright
- Material: Nickel
- Material Purity: >99.9%
- Conductor: Pure Nickel Connector
- Metal: Nickel
- Ni(min): 99.5%
- Application: Chemical Industry Battery Assembly
- Highlight: **99.9% Pure Nickel Strip**, **Customized Pure Nickel Coil**

## More Images

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Our Product Introd

## Product Description

### Product Description:

Pure nickel strip is a strip material made of high-purity nickel metal with excellent corrosion resistance and electrical conductivity.
Its corrosion resistance enables it to withstand the erosion of corrosive media such as acids, alkalis, and salt solutions, so it is widely used in the chemical industry. At the same time, pure nickel tape has excellent conductive properties and is an ideal material for manufacturing circuits, connectors and conductive components in the electronics industry.
Pure nickel strip also has excellent mechanical properties and processability. It has good strength and toughness and can withstand stress and deformation under high temperature, high pressure and heavy load environment. In addition, pure nickel strip can be subjected to various processing techniques such as cold working, hot working and welding, giving it a wide range of application potential in the manufacturing industry.

## Corrosion resistance:

The corrosion resistance of pure nickel strips will be affected by the type of corrosive media in high temperature environments.
Pure nickel belt has good corrosion resistance in some specific corrosive media, especially in acidic environments, such as nitric acid, sulfuric acid, hydrochloric acid, etc. Pure nickel has good acid and alkali resistance and can resist the erosion of these corrosive media.
However, in certain high-temperature environments, especially in the presence of oxidizing gases, pure nickel strips may be corroded by some corrosive media. For example, at high temperatures, oxidizing media such as oxygen, water vapor, chlorine, etc. may cause the oxidation reaction of pure nickel to form an oxide layer or oxidation products, thereby affecting its corrosion resistance.
In addition, pure nickel belts may also be affected by other corrosive media, such as media containing sulfides, ammonia environments, etc. These media may cause sulfide corrosion, ammonia corrosion, etc. at high temperatures, which will corrode pure nickel strips.

## Influencing factors:

In high temperature environments, the corrosion resistance of pure nickel strips may change over time. This is mainly due to the following reasons:
1. Oxide layer formation: At high temperatures, an oxide layer may form on the surface of pure nickel strips. This oxide layer can provide a certain degree of corrosion protection and prevent further oxidation reactions from occurring. However, over time, the oxide layer may gradually thicken, loosen, or crack, reducing its protective effect.
2. Penetration and diffusion: In high-temperature environments, certain corrosive media may penetrate into the interior of pure nickel strips and further erode the material through diffusion. This may lead to changes in the material's structural structure and chemical composition, thereby affecting its corrosion resistance.
3. Intermetallic phase change: At high temperatures, pure nickel strips may undergo intermetallic phase change reactions with certain corrosive media, such as intermetallic corrosion. This can lead to grain growth, grain boundary structural changes and the formation of intermetallic compounds in the material, which in turn reduces the material's corrosion resistance.
4. Stress corrosion cracking: The combined action of stress and corrosive media in high temperature environments may cause stress corrosion cracking in pure nickel strips. This is because stress and corrosive media jointly cause local corrosion and crack formation in the material, further accelerating material damage.

## Technical Parameters:

| Attribute | Value |
|---|---|
| Application | Chemical Industry, Battery Assembly |
| Conductor | Pure Nickel Connector |
| Melting Point(℃) | 1435-1446 ℃ |
| Ultimate Strength (≥ MPa) | 462 |
| Power Or Not | Not |
| Type | Pure Nickel Strip |
| Material Purity | >99.9% |
| Purity | 99.5%Min/ 99.9%Min(customized) |
| Elongation (≥ %) | 45 |
| Resistance (μΩ.m) | 1.5 |

| Grade | Ni+Co | Cu | Si | Mn | C | Mg | S | P | Fe |
|---|---|---|---|---|---|---|---|---|---|
| N4 | 99.8 | 0.015 | 0.03 | 0.002 | 0.01 | 0.01 | 0.001 | 0.001 | 0.04 |
| N6 | 99.6 | 0.10 | 0.10 | 0.05 | 0.10 | 0.10 | 0.005 | 0.002 | 0.10 |
| Ni201 | ≥99.0 | ≤0.25 | ≤0.35 | ≤0.35 | ≤0.02 | / | ≤0.01 | / | ≤0.40 |
| Ni200 | ≥99.2 | ≤0.25 | ≤0.35 | ≤0.35 | ≤0.15 | / | ≤0.01 | / | ≤0.40 |

| | |
|---|---|
| Material | 18650/21700/26650/32650 nickel strip |
| Dimension | 1P to 9P |
| Available Space | 18.5mm,19mm, 19.5mm, 20.2mm |
| Usage | Use for 18650 battery pack |
| Package | Nickel strip in roll pack into carton |
| Physical properties | High temperature resistant, corrosion resistance, |
| Technical support | With imported stamping machine, Japanese Sodick, complete mold (more than 2000 sets of battery industry hardware mold), and can open mold independently. |
| Functions | Products are widely used in energy storage battery, new energy vehicles, electric bicycles, solar street lights, power tools and other energy products |
| Advantage | All materials are degreased and adopt the dry -punching technology to ensure that the product is clean. |

H shape nickel strip: 1P, 2P 3P, 4P, 5P, 6P, 7P, 8P, 9P

| Model | Thickness | Distance of two welding centers: 18.5mm (used for battery pack without battery spacer) | Distance of two welding centers: 19mm | Distance of two welding centers: 19.5mm | Distance of two welding centers: 20/20.25mm |
|---|---|---|---|---|---|
| | | Width(mm) | Width(mm) | Width(mm) | Width(mm) |
| 1P | 0.15/0.2mm | 8 | 8 | 8 | 8 |
| 2P | | 25.5/27 | 26.5/27 | 26.5/27 | 27 |
| 3P | | 44 | 46 | 46 | 47 |
| 4P | | 62.5 | 65.5 | 65.5 | 67 |
| 5P | | 81 | 85 | 85 | 87 |
| 6P | | 99.5 | 104.5 | 104.5 | 107 |
| 7P | | 118 | 124 | 124 | 127 |
| 8P | | 136.5 | 143.5 | 143.5 | 147 |
| 9P | | 155 | 163 | 163 | 167 |

*H* shape nickel strip

| Model | Thickness | Width | Distance of two welding centers |
|---|---|---|---|
| 1P | 0.15/0.2mm | 8 | 18.5mm |
| 2P | | 23 | |
| 3P | | 39 | |
| 4P | | 55 | |
| 5P | | 71 | |

| Type | Dimension(mm) | Cell spacing(mm) | Width | Dimension of the Square hole (mm) | Nickel Plated steel strip | Pure Nickel | Type of battery pack | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Length for per Kg(m) | | with holder | without holder |
| 1P 18650 Nickel strip | 0.15*7*18.4 | 18.4 | 7 | - | 128.3 | 112.6 | | √ |
| | 0.15*7*19 | 19 | | - | 127.9 | 112.1 | √ | |
| | 0.15*7*19.5 | 19.5 | | - | | | √ | |
| | 0.15*7*20.25 | 20.25 | | - | 127.6 | 111.9 | √ | |
| 2P 18650 Nickel strip | 0.15*26*19(13.5*13.5) | 19 | 26 | 12*12 | 47.2 | 41.4 | √ | |
| | 0.15*27*19.5(12*14.5) | 19.5 | 27 | 12*14.5 | 48.9 | 42.9 | √ | |
| | 0.15*27*19.75(12.5*12.5) | 19.75 | | 12.5*12.5 | 47 | 41.2 | √ | |
| | 0.15*27*20.25(13.5*13.5) | 20.25 | | 13.5*13.5 | 48.9 | 42.9 | √ | |
| 2P 18650 Nickel strip | 0.15*25.5*18.4(11*12.5) | 18.4 | 25.5 | 11*12.5 | 48.9 | 42.9 | | √ |
| Dislocation 2P 18650 Nickel strip | 0.15*25.5*18.4(8*9.5) | 18.4 | | 8*9.5 | 41.1 | 36.1 | | √ |
| Dislocation 2P 18650 Nickel strip | 0.15*25.5*19.5(8*9.5) | 19.5 | | 8*9.5 | 38.6 | 33.8 | √ | |
| 3P 18650 Nickel strip | 0.15*44.5*18.4（11*12.5） | 18.4 | 44.5 | 11*12.5 | 27.4 | 24 | | √ |
| | 0.15*45*19（12*12） | 19 | 45 | 12*12 | 29.1 | 25.5 | √ | |
| | 0.15*47.5*20.15（12.65*12.65） | 20.15 | 47.5 | 12.65*12.65 | 27.4 | 24 | √ | |
| | 0.15*47.5*20.25（13.5*13.5） | 20.25 | | 13.5*13.5 | 29.4 | 25.7 | √ | |
| 4P 18650 Nickel strip | 0.15*63*18.5 （11*12.5） | 18.5 | 63 | 11*12.5 | 21.6 | 18.9 | | √ |
| | 0.15*64*19（12*12） | 19 | 64 | 12*12 | 21 | 18.4 | √ | |
| | 0.15*67.95*20.15（12.65*12.65） | 20.15 | 67.95 | 12.65*12.65 | 19.6 | 17.2 | √ | |
| | 0.15*67.7*20.25（13.5*13.5） | 20.25 | 67 | 13.5*13.5 | 21.3 | 18.7 | √ | |
| 5P 18650 Nickel strip | 0.15*83*19（12*12） | 19 | 83 | 12*12 | 16.4 | 14.4 | √ | |
| | 0.15*88.1*20.15（12.65*12.65） | 20.15 | 88.1 | 12.65*12.65 | 19.7 | 17.3 | √ | |
| | 0.15*87.9*20.25（13.5*13.5） | 20.25 | 87.9 | 13.5*13.5 | 16.7 | 14.6 | √ | |
| 6P 18650 Nickel strip | 0.15*102*19（12*12） | 19 | 102 | 12*12 | 13.5 | 11.9 | √ | |
| | 0.15*108.25*20.15 | 20.15 | 108.25 | 12.65*12.65 | 12.6 | 11 | √ | |
| | 0.15*108.1*20.25（13.5*13.5） | 20.25 | 108.1 | 13.5*13.5 | 13.7 | 12 | √ | |
| 7P 18650 Nickel strip | 0.15*121*19（12*12） | 19 | 121 | 12*12 | 11.5 | 10 | √ | |
| | 0.15*128.4*20.15（12.65*12.65） | 20.15 | 128.4 | 12.65*12.65 | 10.7 | 9.4 | √ | |
| | 0.15*128.3*20.25（13.5*13.5） | 20.25 | 128.3 | 13.5*13.5 | 11.6 | 10.2 | √ | |
| 8P 18650 Nickel strip | 0.15*140*19（12*12） | 19 | 140 | 12*12 | 10 | 8.7 | √ | |

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## FAQ:

What is the thermal expansion coefficient of pure nickel ribbon?
The thermal expansion coefficient of pure nickel tape is approximately 13.3 x 10^-6 m/m·K.

Does pure nickel strip have good corrosion resistance?
Yes, pure nickel strips have good corrosion resistance and can be used in various corrosive environments.

What are the advantages of pure nickel strip's thermal fatigue resistance?
Pure nickel strips have good thermal fatigue resistance and can maintain high strength and life under high temperature cyclic loading.

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