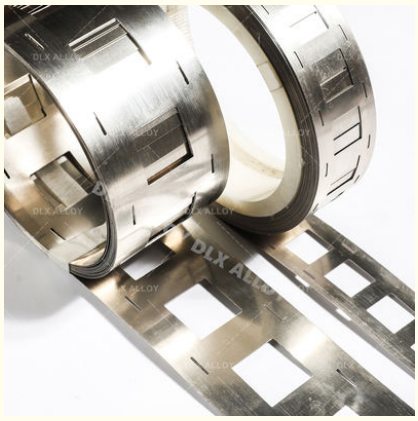
Nickel Tape 18650 Nickel Strip 0.15*8mm Pure Nickel Strip

Our Product Introduction

Basic Information

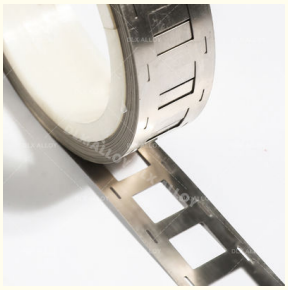
- Place of Origin: China
- Brand Name: Victory
- Certification: ISO,TUV, RoHS
- Model Number: N4,N6,Ni200,Ni201
- Minimum Order Quantity: 2kg
- Price: 1 - 49 kilograms US$35.00
- Packaging Details: Spool package with Carton box, Coil package with polybag,
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month



Product Specification

- Product Name: Pure Nickel Strip
- Grade: N4,N6,Ni200,Ni201
- Metal: Nickel
- Ni(min): 99.5%
- Resistance (μΩ.m): 1.5
- Ultimate Strength (≥ MPa): 462
- Elongation (≥ %): 45
- Surface: Bright
- Density (g/cm3): 8.9 G/cm3
- Resistivity: 1.35±0.07
- Melting Point(℃): 1435-1446 ℃
- Application: Chemical Industry Battery Assembly
- M.O.Q: 2KG
- Highlight: **18650 Nickel Strip**, **Nickel Strip 8mm**, **8mm Pure Nickel Strip**

More Images



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Product Description

Product Description:

Pure nickel belt is a belt-shaped material made of high-purity nickel metal with outstanding corrosion resistance and conductive properties. It is widely used in chemical industry, electronics, aerospace and other fields to manufacture equipment and components with reliable performance and durability.
Pure nickel belt also has excellent mechanical properties and processability. It has high strength, good toughness and plasticity, and can withstand stress and deformation under high temperature, high pressure and heavy load environment. At the same time, pure nickel strips can be subjected to various processing techniques such as cold working, hot working and welding, making it easy to manufacture parts of various shapes and sizes.

Advantages:

Compared with many other materials, pure nickel tape has some advantages in high temperature environments, mainly in the following aspects:
1. High temperature strength: Pure nickel belt has excellent high temperature strength and can maintain high mechanical properties at high temperatures. It has good ductility and toughness, can withstand stress and deformation at high temperatures, and is not prone to creep or plastic deformation.
2. Anti-oxidation performance: Pure nickel belt has good anti-oxidation performance and can form a stable oxide layer at high temperatures. This oxide layer can provide a certain degree of corrosion protection and prevent further oxidation reactions from occurring.
3. Good thermal creep resistance: Pure nickel strip has a lower thermal creep rate at high temperatures, that is, it has a higher deformation ability under high temperatures for a long time. This makes pure nickel strip suitable for applications that need to withstand high temperatures and prolonged loads, such as aerospace engine components.
4. Good heat fatigue resistance: Pure nickel strips show good heat fatigue resistance at high temperatures, that is, they are not prone to fatigue cracking under high temperature cyclic loads. This makes pure nickel tape suitable for applications under high temperature cyclic stress conditions, such as in aerospace.
5. Low thermal expansion coefficient: Pure nickel strip has a relatively low thermal expansion coefficient, which means that the size of pure nickel strip changes less under high temperature conditions. This allows pure nickel tape to maintain good dimensional stability in environments with large temperature changes.

Effect of size customization on conductive properties:

The size customization of pure nickel strips can have a certain impact on its conductive properties. Here are some possible influencing factors:
Resistance: According to Ohm's law, resistance (R) is directly proportional to the conductor length (L) and inversely proportional to the conductor cross-sectional area (A). Therefore, when the length of a pure nickel strip increases or its cross-sectional area decreases, its resistance increases accordingly. This means that narrower or longer strips of pure nickel may have higher resistance, affecting their conductive properties.
Current Density: Thinner pure nickel strips have smaller cross-sectional areas, which may result in higher current densities when passing through the pure nickel strips. High current densities may induce electrothermal effects, causing the pure nickel strip to heat up and increase resistance. This can adversely affect electrical conductivity and, in extreme cases, lead to overheating and damage.
Contact resistance: Contact resistance is also an important factor when pure nickel tape is used to connect circuits or electrical components. Smaller or custom-sized pure nickel strips may result in smaller contact areas, thus increasing contact resistance. This may affect the efficiency of signal transmission or current conduction.

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

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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 are the surface treatment options for pure nickel strips?
The surface of pure nickel strips can be polished, pickled, ground and other treatments to meet the requirements of different applications.

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 high temperature strength of pure nickel belt?
Pure nickel belt has good high-temperature strength and can maintain high mechanical properties and stability in high-temperature environments.

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