85%~98% Porosity Nickel Foam Sheet Ni Metal Foam Plate For Battery Electrode

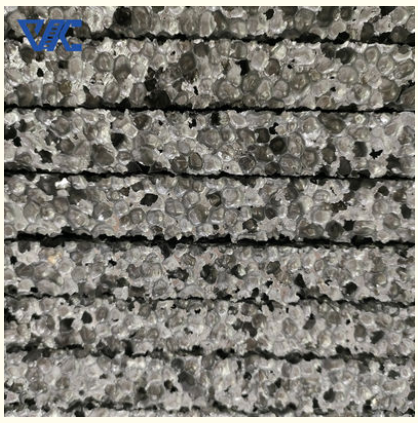
Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Model Number: Foam Alloy
- Minimum Order Quantity: 500
- Price: Negotiable
- 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: Nickel Foam
- Material: Nickel
- Density: 0.1-0.8g/cm3
- Performance: Sound-absorbing
- Melting Temperature: 560-700°C
- Feature: High Impact Absorption Ability
- Purity: 97%
- The Aperture: 0.2mm-8mm (50-130ppi)
- Size: Request
- Application: Battery, Filter, Sound Absorbing
- Specific Surface Area: ≥10 /g
- Highlight: **Aluminum Metal Foam**, **98% Metal Foam**, **Alloy aluminum foam**



More Images

Our Product Introduction

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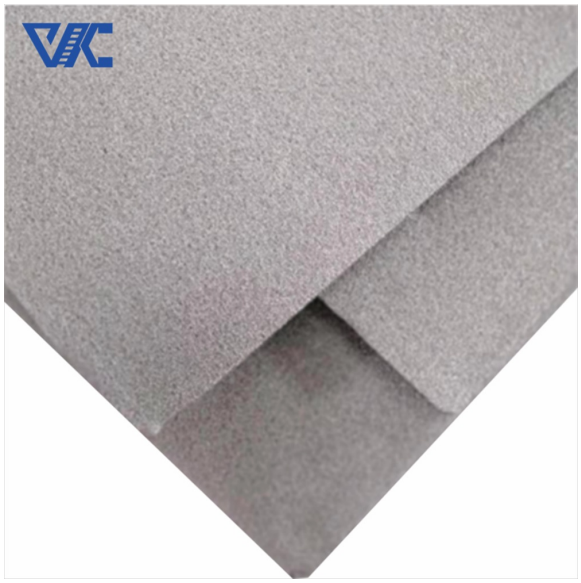
Product Description

Introduction:

Nickel foam is a versatile and highly porous material with a wide range of applications. Its interconnected nickel strands form a three-dimensional network of open cells, providing a high surface area for catalysis, filtration, and energy storage. With excellent conductivity and thermal properties, nickel foam finds applications in industries like aerospace, automotive, electronics, and environmental engineering.

Advantage:

1. High specific surface area: Nickel foam has a large number of connected pores, giving it an extremely high specific surface area, which is beneficial to surface-related applications such as adsorption, catalysis and reaction.
2. Conductive properties: Nickel foam has good electrical conductivity and can be used in batteries, energy storage equipment, electromagnetic shielding and other fields.
3. High strength: Although nickel foam has a low density, due to its porous structure, it has excellent lightweight and high-strength properties, making it suitable for applications requiring a strength-to-weight ratio.
4. Good thermal stability: Nickel foam has good thermal stability and can be used in high temperature environments, such as thermal isolation, heat dissipation and catalytic reactions.
5. Recyclable utilization: Nickel foam can be recycled and reused, which is conducive to environmental protection and sustainable use of resources.



Application:

1. Catalyst: As a catalyst carrier, it is used in catalytic processes such as hydrogenation reactions, oxidation reactions, and organic synthesis.
2. Battery materials: used as electrode materials for batteries, such as anode materials in nickel-metal hydride batteries and fuel cells.
3. Filter: used for filtration of gases and liquids to remove suspended particles and impurities.
4. Sound-absorbing materials: Utilize porous structures to prepare sound-absorbing materials to reduce noise and sound wave reflection.
5. Thermal Isolation Materials: Used in thermal isolation and heat dissipation applications such as heat pipes, heat sinks, etc.
6. Hydrogen storage materials: used as hydrogen storage materials for hydrogen energy storage and transmission.
7. Energy storage materials: used for energy adsorption and storage, such as supercapacitors and energy storage devices.
8. Electromagnetic shielding: Utilizes its conductive properties for electromagnetic shielding and protection applications.

Parameter:

Material	Nickel Foam
Purity	> 99.99%(excellent anti-corrosive)
Surface Density	346g/m2
Length	1m
Width	300mm
Thickness	1.6 mm
Net weight	104g
Porosity	≥95% (80-110 Pores per Inch. average hole diameters about 0.25mm)
Extensibility	Lengthwise≥5%; Widthwise≥12%
Tensile Strength	Lengthwise≥1.25N/mm^2; Widthwise≥1.00N/mm^2

contact us
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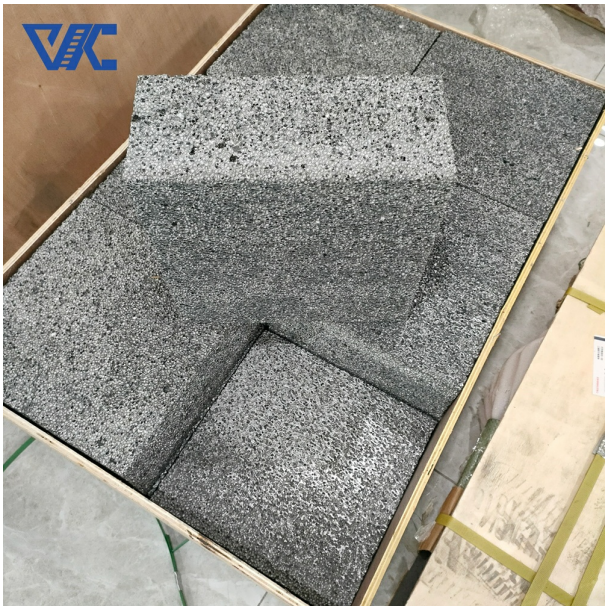
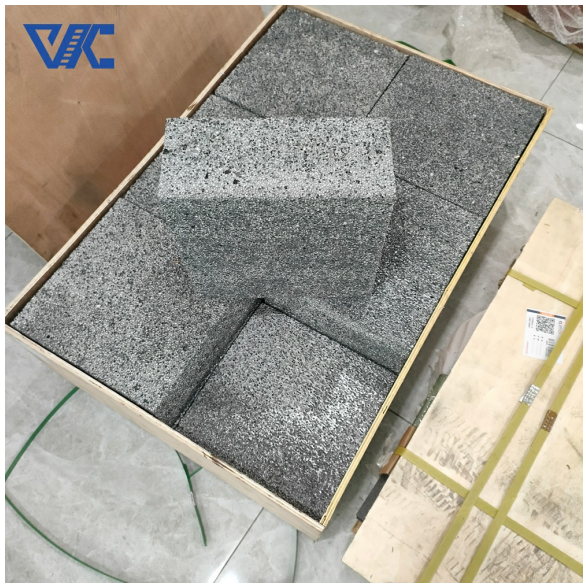
Oem service:
Welcome customized size
We are experience factory for OEM&ODM service

0.1mm*200mm*300mm	0.2mm*200mm*300mm	0.3mm*200mm*300mm

0.5mm to 1.7mm*200mm*300mm	2mm*200mm*300mm	3 to 4mm*200mm*300mm
5mm*200mm*300mm	6mm*200mm*300mm	8mm*200mm*300mm
10mm*200mm*300mm	10 to 20mm*200mm*300mm	The size can be customized





FAQ:

What are the characteristics of nickel foam?
Nickel foam has the characteristics of high specific surface area, light weight and high strength, good electrical conductivity, good thermal stability and controllable pore structure.

What are the application fields of nickel foam?
Nickel foam is widely used in catalysts, electrochemical cells, filter materials, sound-absorbing materials, energy adsorption and storage and other fields.

What are the applications of nickel foam in the field of catalysis?
Nickel foam can be used as a catalyst carrier and is widely used in catalytic processes such as hydrogenation reactions, oxidation reactions, and organic synthesis.

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