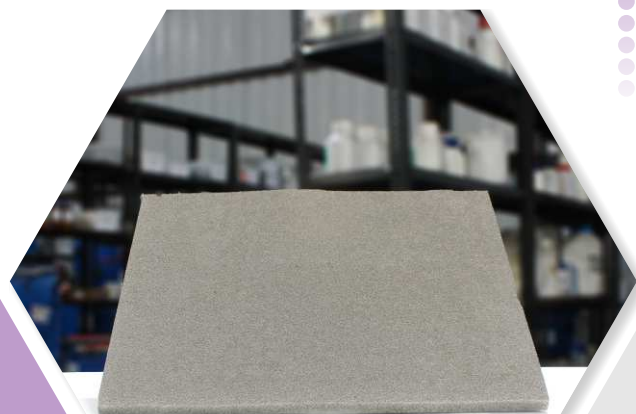


Nickel Foam

Ni

99.9%



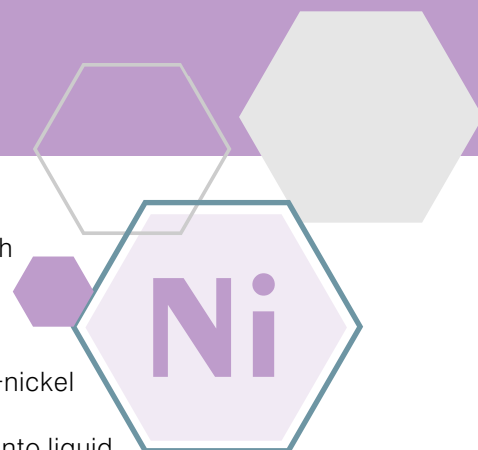
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NS6130-10-1008

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Nickel Foam



- Nickel foam is an excellent sound-absorbing material, especially at high frequencies.
- The sound absorption performance in low frequency can be improved by designing the sound absorption structure.
- Nickel foam is also one of the best electrode materials for making cadmium–nickel batteries and hydrogen–nickel batteries.
- The preparation methods of nickel foam at the present stage can be divided into liquid phase method, solid–phase method, electrodeposition method, and gas–phase method, etc
- Nickel foam possesses lightweight, high porosity, exceptional uniformity, and intrinsic strength.
- It also exhibits properties for instance corrosion resistance, good electrical and thermal conductivity.
- Moreover, it exhibits a high density, good porosity, thermal stability, and good gas distribution characteristics.
- It shows various properties such as low–pressure drop, intrinsic strength, unique open cell structure, resistant to thermal shock, etc.
- Alluring porous structure and the microstructures tailorable over the range 40 to 80% porosity
- High stiffness–to–weight and strength–to–weight ratios
- Ability to absorb energy from an impact, crash, and explosive blasts
- Vibration damping and sound absorption
- Fire resistance and thermal insulating properties

Additional Characteristics

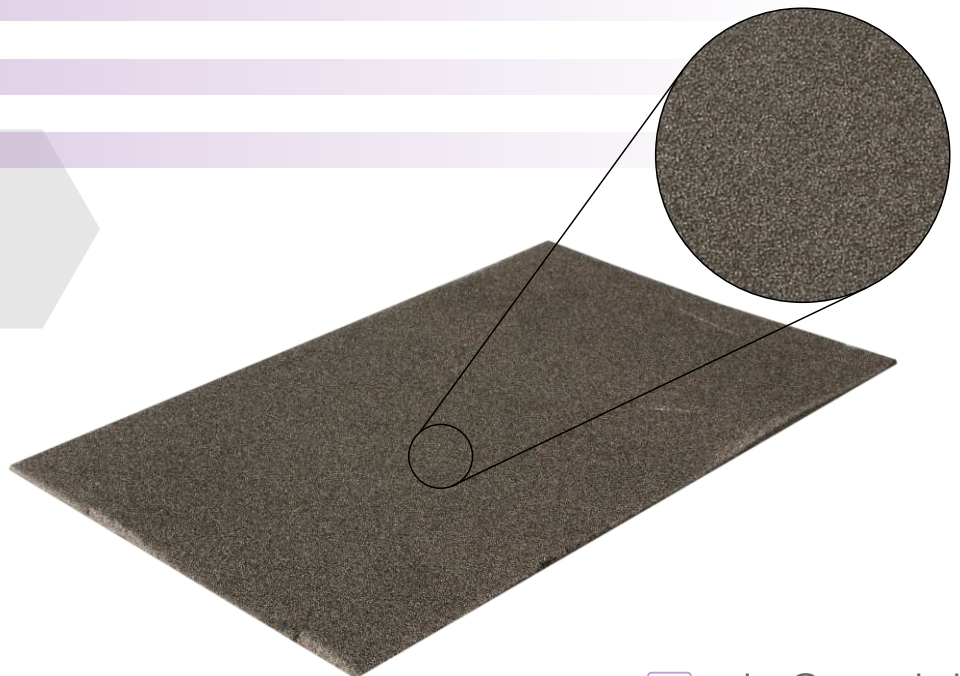
| Stock No. | Purity | Pore Size | Thickness | Porosity |
|----------------|--------|-----------|-----------|----------|
| NS6130-10-1008 | 99.9% | 0.5 mm | 2 mm | ≥95% |

Properties of Foam

The key properties of metal foam are as follows:



- Ultralight material (75–95% of the volume consists of void spaces)
- Very high porosity
- High compression strengths combined with good energy absorption characteristics
- Thermal conductivity is low
- High stiffness
- High melting point
- Better damping
- Thermal insulation

A purple vertical bar on the left side of the page. At the top, there is a white hexagonal badge with a purple border containing the text 'Purity 99.9%' in a purple font.



Nickel

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CHARACTERISTICS OF METAL FOAMS

Ultra-lightweight aluminum foams possess unique microstructural characteristics and physical properties that make them attractive for automotive, as well as other applications:

- Ultra-lightweight foam

Applications Of Nickel Foam

- High temperature resistant ultra-light structure
- Dominant packaging material
- High-grade decorative material
- Efficient substrate and supportive for electrode material
- Condenser heat exchange material
- Chemical catalyst carrier material
- Floor damping material
- Foams blot up the sound, vibrations and shocks
- Works as a shielding material
- Used as the base plate of positive electrode in Ni-MH / Ni-Cd battery
- Filtration materials of air / oil / smoke
- Porous electrode in Galvano-Chemistry Engineering
- As catalyst support for automotive catalytic converters
- In future, utilized as bipolar plate enhancement material for proton exchange membrane fuel cells



ISO 9001:2015
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