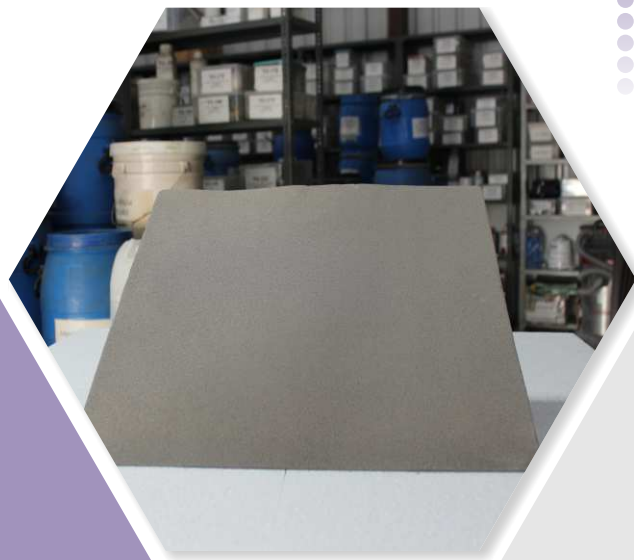


Nickel Foam

Ni

99.9%

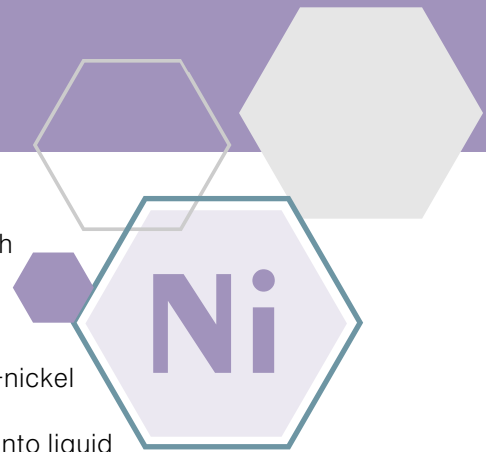


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Nickel Foam

- 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



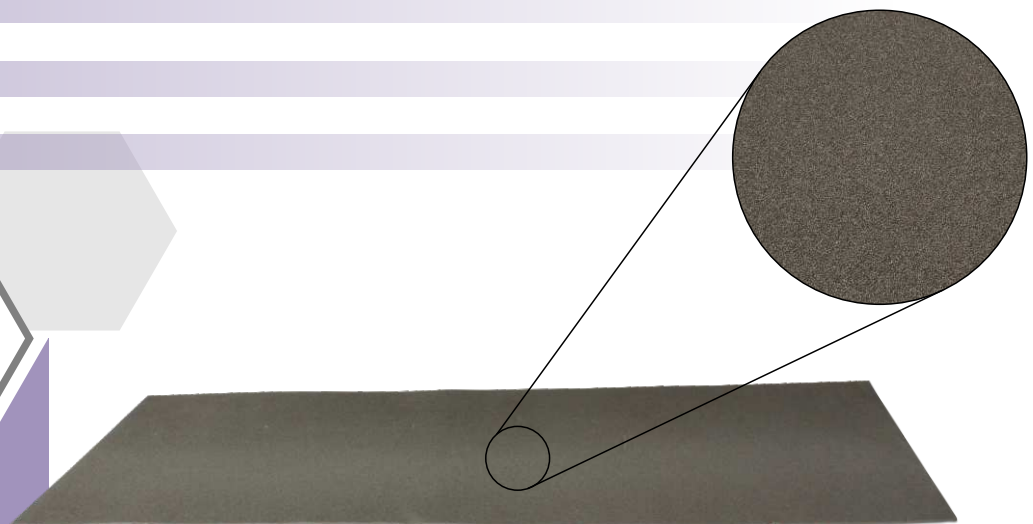
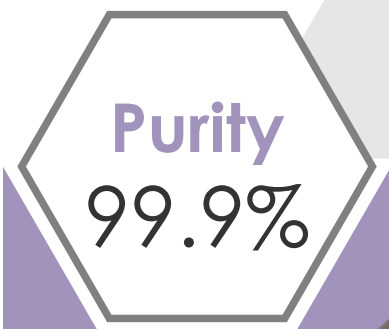
Additional Characteristics

Stock No.	Purity	Pore Size	Dimension	PPI	Porosity
NS6130-10-1325	99.9%	0.5-0.2 mm	730mm X 270mm X 0.5 mm	110	60%

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



Nickel

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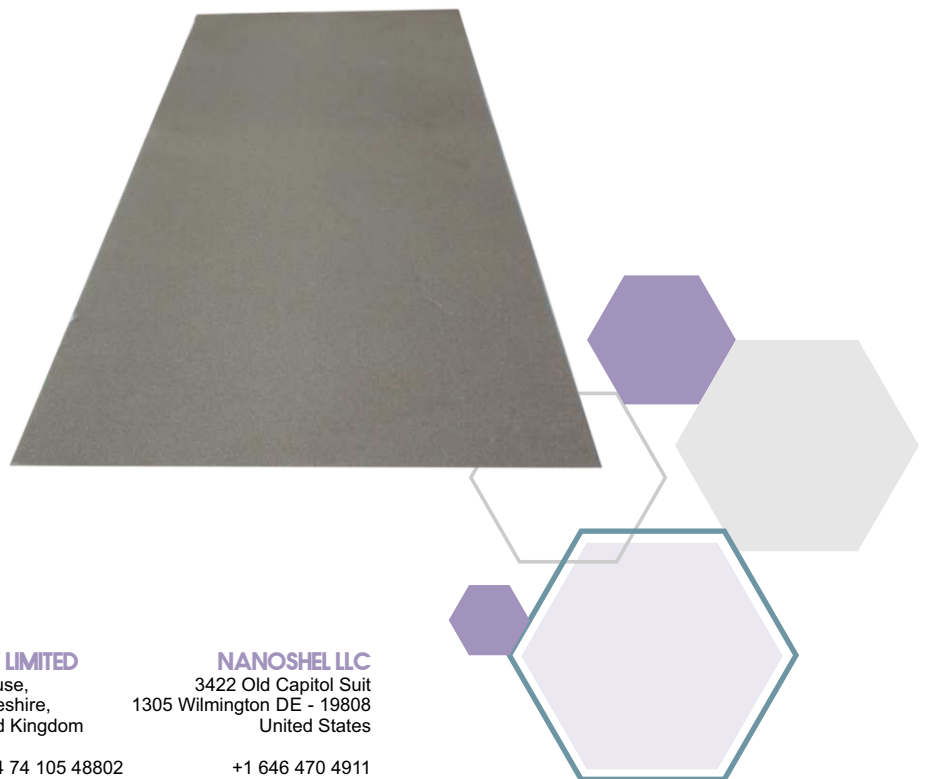
CHARACTERISTICS OF METAL FOAMS

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



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INTELLIGENT MATERIALS PVT LTD

Derabassi
Punjab (140507)
INDIA

+91 9779 550077, 9779238252

NANOSHEL UK LIMITED

Chapel House,
Chapel St Cheshire,
CW12 4AB United Kingdom

+44 1782 454 144, +44 74 105 48802

NANOSHEL LLC

3422 Old Capitol Suit
1305 Wilmington DE - 19808
United States

+1 646 470 4911