 Nickel Metal Foam

The key properties of Nickel foam are as follows:

✓ 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

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Technical Specification

01 Nickel Metal Foam
- Stock No: NS6130-10-1008
- Thickness: 2 mm
- Pore Size: 0.5 mm
- Porosity: >95%

02 Nickel Metal Foam
- Stock No: NS6130-10-1093
- Length: 500 mm
- Width: 500 mm
- Thickness: 3 mm
- PPI: 50
- Pore Size: 0.5-0.5 mm
- Porosity: 60-90%

03 Nickel Foam Sheet
- Stock No: NS6130-10-1325
- Size: 730 mm × 270 mm
- Thickness: 0.5 mm
- PPI: 110
- Pore Size: 0.5-0.2 mm
- Porosity: 60%

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The key properties of the Nickel metal foam are as follows:

- Ultra-light 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
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 Metal 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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CERTIFIED COMPANY
Ordering Information and Stock Availability

☑ Product: Nickel Foam
☑ Stock Availability: Available
☑ Distribution: Global
☑ Packing Sizes: 1 Piece, 2 Piece, 5 Piece, 10 Piece, & Bulk Orders

DEALS WITH

Our aluminium foams purchased by well-established and spectacular research centres and organizations:

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