

INLAND ATOMIZE METAL POWDER LLP

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Nickel (Ni) Powder

IAMP is specialist to supply Nickel powders, which meets specific technical requirements such as Apparent Density, Specific Surface Area and Purity. Nickel powder is Suitable materials where excellent sintering, corrosion resistance, and alloying capability are required — mainly PM, AM, batteries, catalysts, and coatings.

Physical Properties:

Molecular Formula:	Ni	Color:	Silvery - Grey
Shape:	Irregular / angular	Purity:	99.8%
Product method:	Hydrogen reduction	Molecular Weight:	58.69 g/mol
Freezing/Melting Point:	1455°C	Boiling Point:	2913 °C
Specific Gravity/Density:	8.90 g/cm ³		

Applications:

- **Powder Metallurgy (PM)** :High-strength and corrosion-resistant components. Bearings, gears, and valve components. Alloying with copper, iron, and other metals.
- **Additive Manufacturing (AM)** :High-performance aerospace and defence parts. Precision 3D-printed components requiring corrosion resistance
- **Electronics & Electrical Applications** : Battery electrodes (Ni-based). Electrical contacts and connectors. Fuel cell components
- **Catalysts** : Hydrogenation and chemical catalysts for industrial reactions. Surface-coated or supported nickel catalysts
- **Chemical Industry** : Alloy precursor powders for chemical processing equipment. Ni-based powders for specialty alloys and composite materials
- **Coatings & Cladding** : Thermal spray coatings for wear and corrosion resistance. Protective layers in chemical and marine environments

Specification:

Grade	1.5 µm	3.0 µm	3.6 µm	5.0 µm
FSS Particle Size	1.1 – 1.7	2.5 – 3.5	3.2 – 4.2	4.5 – 5.5
Scott Density, g/ln3	13 – 19	19 – 29	24 – 36	32 – 49
Tap Density, g/cm ³	1.5 – 2.0	2.0 – 2.8	2.5 – 3.5	3.0 – 4.0
Screen Size	-150 Mesh	-150 Mesh	-150 Mesh	-150 Mesh
Oxygen Content, Wt%	0.15	0.12	0.10	0.10

Packaging:

Powder will be supplied by standard packing in Vacuum bag of 5Kg, 10Kg, and 25Kg or can be supplied as per customer special requirement.

Storage:

Keep in a cool, dry, and well-ventilated environment, away from humidity and corrosive atmospheres. Avoid direct contact with water, acids, and oxidizing agents that may cause surface oxidation. Containers must be closed immediately after use to preserve powder flowability and prevent agglomeration. Store away from heat sources, sparks, or open flames, as very fine tungsten powder can be combustible in air.