

INLAND ATOMIZE METAL POWDER LLP

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IAMP Alloy 718

Material: Nickel Base Super Alloy (UNS N07718)
Manufacturing Method: Vacuum Induction Melting Inert Gas Atomization (VIGA)

Chemical Composition (Weight %)

Element	C	Si	Mn	P	S	Cr	Ni	Mo	Co	Nb+Ta	Ti	Al	Fe
Min						17.00	50.00	2.80		4.75	0.65	0.20	Bal.
Max	0.08	0.35	0.35	0.015	0.015	21.00	55.00	3.30	1.00	5.50	1.15	0.80	

Powder Characteristics

- Particle Shape:** Spherical (high sphericity due to gas atomization)
- Flowability:** Excellent, suitable for additive manufacturing and powder metallurgy
- Oxygen Content :** Extremely Low Oxygen content due to VIGA technology
- Tap Density (g/cc):** 4.85 Min.

Particle Size Distribution

Application	MIM	3D Printing/LPBF	Binder Jetting
Size Range	< 22 µm	15 – 53 µm	<25 µm
D90	22.0 Max	54.0 Max	25.0 Max
D50	13.5 Max	37.0 Max	15.0 Max
D10	6.0 Max	25.0 Max	6.5 Max

Customize particle size can be made upon request

Key Features

- Superior corrosion resistance and mechanical properties.
- Excellent flowability and packing density due to uniform spherical particles.
- Optimized for additive manufacturing, powder metallurgy, and thermal spraying applications.
- Retains composition and properties at high temperatures.
- Supports dense compaction in PM applications and improved sintering behavior.
- Ideal for aerospace, defense, chemical, power generation, additive manufacturing, and high-performance tooling.

Packaging:

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

Storage:

Store in a cool, dry, and well-ventilated area away from direct sunlight and moisture. Keep containers tightly sealed and properly labelled to prevent contamination and oxidation. Avoid exposure to open flames, sparks, or static discharge—powder may be combustible in fine particle form