

INLAND ATOMIZE METAL POWDER LLP

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IAMP MAR 300

Material: Maraging Steel (ASTM A646-Maraging steel 300)

Manufacturing Method: Vacuum Induction Melting Inert Gas Atomization (VIGA)

Chemical Composition (Weight %)

Element	C	Si	Mn	P	S	Ni	Co	Mo	Ti	Al	Fe
Min						18.00	8.50	4.70	0.5	0.05	Bal.
Max	0.03	0.10	0.10	0.010	0.010	19.00	9.50	5.20	0.80	0.15	

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):** 4.75 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

- Provides excellent flowability, uniform layer deposition, and consistent packing density.
- Supports dense packing and efficient sintering/HIP consolidation.
- Exceptional strength, toughness, and ductility after aging heat treatment.
- Reduces risk of carbide precipitation and enhances weldability.
- Widely used Aerospace components, tooling, dies, molds, high-performance shafts, and defense applications.

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 environment, away from direct sunlight, humidity, and corrosive atmospheres.

Containers must be tightly closed immediately after use to maintain powder flowability and prevent agglomeration.

Follow standard safety and handling protocols for fine metal powders, including dust control and ignition prevention.