

# INLAND ATOMIZE METAL POWDER LLP

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## IAMP SS 17- 4 PH

**Material:** Martensitic Precipitation Hardening Stainless Steel (UNS S17400)

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

### Chemical Composition (Weight %)

Element	C	Si	Mn	P	S	Cr	Ni	Cu	Nb	Mo	Fe
Min						15.00	3.00	3.00	0.15		Bal.
Max	0.07	1.00	1.00	0.040	0.030	17.50	5.00	5.00	0.45	0.30	

### 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):** 4.65 Min.

### Particle Size Distribution

Application	MIM	3D Printing/LPBF	Binder Jetting
Size Range	< 22 $\mu\text{m}$	15 – 53 $\mu\text{m}$	<25 $\mu\text{m}$
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

- Excellent weldability and corrosion resistance.
- High powder flowability and packing density.
- Suitable for AM, MIM, HIP, thermal spraying, and powder metallurgy 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:

Usually stored in tank or jar.  
Carefully keep away from moist and damp.  
Store in dry and ventilating place.

*MIM: Metal Injection Molding, BJ: Binder Jetting, LPBF: Laser Powder Bed Fusion*

*Specification is only for Reference purposes, and it varies with application requirements*