

INLAND ATOMIZE METAL POWDER LLP

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IAMP SS 304

Material: Austenitic Stainless Steel (UNS S30400)

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

Chemical Composition (Weight %)

| Element | C | Si | Mn | P | S | Cr | Ni | Fe |
|---------|------|------|------|-------|-------|-------|-------|---------|
| Min | | | | | | 18.00 | 8.00 | Balance |
| Max | 0.08 | 1.00 | 2.00 | 0.045 | 0.030 | 20.00 | 10.50 | |

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):** 4.6 Min.

Particle Size Distribution

| Application | MIM | 3D Printing/LPBF | Binder Jetting |
|-------------|--------------|------------------|----------------|
| Size Range | < 22 μ m | 15 – 53 μ m | <25 μ 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 | 6.5Max |

Customize particle size can be made upon request

Key Features

- improves resistance to intergranular corrosion.
- 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