

INLAND ATOMIZE METAL POWDER LLP

Survey No. 230/2, Por-Manglej Road, Village - Manglej, Ta. KARJAN, Vadodara - 391243

Email: Info@Inlandatomizemetalpowder.com

Mo: +9196623 00876

IAMP SS 316

Material: Austenitic Stainless Steel (UNS S31600)

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

Chemical Composition (Weight %)

Element	C	Si	Mn	P	S	Cr	Ni	Mo	Fe
Min						16.00	10.00	2.00	Balance
Max	0.08	1.00	2.00	0.045	0.030	18.00	14.00	3.00	

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 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	6.5 Max

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