INDO-MIM PVT LTD.
#45(P), KIADB Industrial Area, Doddaballapur, Bengaluru - 561203
Phone: +91-080-22048600/636 | FAX: +91-080-27630532
Email: infopowders@indo-mim.com or infohq@indo-mim.com | Website: www.indo-mim.com

INDO-FUSION SS-316L

Vacuum Induction Melting - Inert Gas Atomization process is used to manufacture SS 316L powder at various fractions. Our unique controls in process will control particle size and morphology to get good powder flowability for achieving dense coatings consistently. 316L is a low carbon, non-magnetic, austenitic stainless steel that is molybdenum alloyed for enhanced corrosion resistance in chloride environments along with moderate to good strength, good fracture toughness and has generally good corrosion resistance, especially intergranular corrosion and its chemical composition corresponds to UNS S31603.

Particle Size Distribution

Light scattering (ASTM B822 / ISO 13320-1)				
Application	**Size Range**	**D10%**	**D50%**	**D90%**
TS	15 - 45µm	24.0 max	36.0 max	48.0 max
	15 – 53µm	24.0 max	36.0 max	54.0 max

Chemical Composition (weight %)

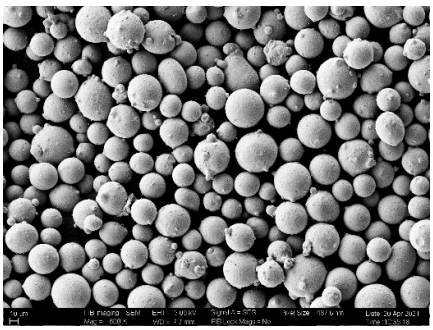
Element	Range (%)
Carbon	0.03 max
Silicon	1.00 max
Manganese	2.00 max
Phosphorous	0.045 max
Sulphur	0.030 max
Chromium	16.0 – 18.0
Nickel	10.0 – 14.0
Molybdenum	2.00 – 3.00
Others	0.30 max
Iron	Balance

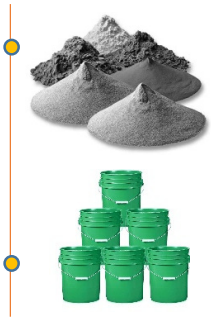
Physical Properties

Property	Specification	Test Method
Tap Density	Min 4.65 g/cc	ASTM B527
Apparent Density	Min 4.20 g/cc	ASTM B212
Hall Flow Number	Max 22 sec/50g	ASTM B213

Morphology

*Applicable only for Thermal Spray





Customization on chemical composition & particle size can be made.

Packing with 10 / 50 / 100 kg container & custom packing is possible.

TS: Thermal Spray

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