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INDO-FUSION SS-310

Vacuum Induction Melting - Inert Gas Atomization process is used to manufacture SS 310 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. SS310 is an austenitic stainless steel developed for use in high temperature corrosion resistant applications. Due to its high chromium and moderate nickel content it is resistant to sulfidation and can also be used in moderately carburizing atmospheres and its chemical composition corresponds to UNS S31000.

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

Physical Properties

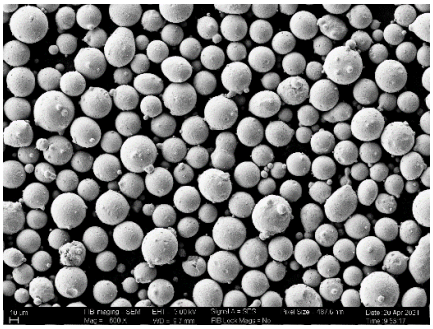
Property	Specification	Test Method
Tap Density	Min 4.65 g/cc	ASTM B527
Apparent Density	Min 4.00 g/cc	ASTM B212
Hall Flow Number	Max 22 sec/50g	ASTM B213

Chemical Composition (weight %)

Element	Limits
Carbon	0.28 - 0.31
Silicon	0.80-1.10
Manganese	0.90 max
Phosphorous	0.030 max
Sulfur	0.015 max
Molybdenum	0.30 max
Chromium	24.25 - 26.00
Nickel	19.25 - 21.00
Niobium	1.25 - 1.50
Iron	Balance

Morphology

*Applicable only for Thermal Spray



Customization on chemical composition & particle size can be made.

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

TS: Thermal Spray

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