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INDO-FUSION Alloy-625

Vacuum Induction Melting - Inert Gas Atomization process is used to manufacture alloy 625 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. Alloy-625 is a non-magnetic, corrosion and oxidation resistant, nickel-base super alloy. It has outstanding strength and toughness at cryogenic temperature range and it has excellent fatigue strength and stress corrosion cracking resistance to chloride ions. Its chemical composition corresponds to UNS N06625.

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 %)

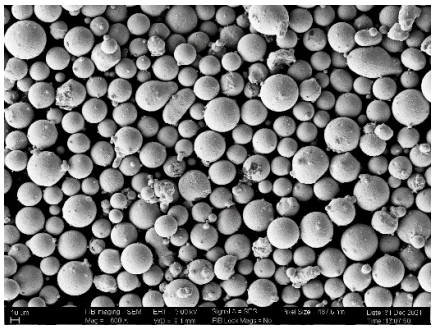
Element	Range (%)
Carbon	0.10 max
Silicon	0.50 max
Manganese	0.50 max
Phosphorous	0.015 max
Sulphur	0.015 max
Chromium	20.0 – 23.0
Molybdenum	8.0 – 10.0
Cobalt	1.00 max
Niobium	3.15 – 4.15
Titanium	0.40 max
Aluminium	0.40 max
Iron	5.00 max
Nickel	Balance

Physical Properties

Property	Specification	Test Method
Tap Density	Min 4.95 g/cc	ASTM B527
Apparent Density	Min 4.00 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 containers & custom packing is possible.

TS: Thermal Spray

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