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INDO-FUSION STL-21 (Co alloy)

Vacuum Induction Melting - Inert Gas Atomization process is used to manufacture STL-21 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. STL 21 is a cobalt-chromium-tungsten superalloy having excellent resistance to cavitation, galling, wear and corrosion in both oxidizing and reducing atmosphere. It is used in petrochemical, power generations and medical applications.

Particle Size Distribution

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

Physical Properties

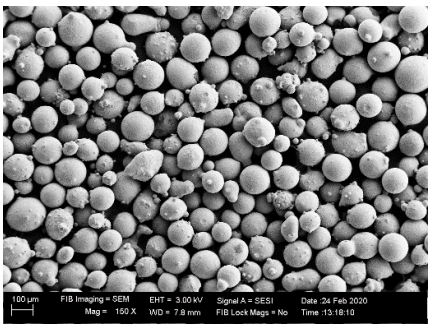
Property	**Specification**	**Test Method**
Tap Density	Min 5.10 g/cc	ASTM B527
Apparent Density	Min 4.00 g/cc	ASTM B212
Hall Flow Number	Max 22 sec/50g	ASTM B213

Chemical Composition (weight %)

Element	**Range (%)**
Carbon	0.15 – 0.45
Silicon	1.50 max
Manganese	1.50 max
Phosphorous	0.01 max
Sulphur	0.01 max
Chromium	25.00 – 30.00
Molybdenum	4.50 - 7.00
Nickel	1.50 - 4.00
Iron	3.00 max
Tungsten	0.50 max
Aluminium	0.05 max
Cobalt	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*