

INDO-MIM PVT LTD.

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SS-321

SS-321 is austenitic stainless steel that provides high strength, resistance to scaling and phase stability with resistance to subsequent aqueous corrosion. Its chemical composition corresponds to UNS S32100 for use in additive manufacturing processes. Vacuum Induction Melting - Inert Gas Atomization process is used at INDO-MIM for manufacturing of powder. Our unique ASB technique improves powder sphericity, which enhances flowability in achieving consistent density and uniform build rates.

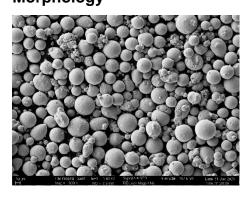
Particle Size Distribution

Light scattering (ASTM B822 / ISO 13320-1)					
Application	Size Range	D10%	D50%	D90%	
МІМ	<22µm	5.0 max	12.0 max	22.0 max	
BJ	<25µm	5.5 max	13.5 max	25.0 max	
LPBF	15 – 53μm	24.0 max	36.0 max	54.0 max	

Physical Properties

Property	g/cc	Test Method
Tap Density	4.65 min	ASTM B527
True Density	7.75 min	ASTM B923

Morphology





Chemical Composition (weight %)

Element	Range (%)	
Carbon	0.08 max	
Silicon	0.75 max	
Manganese	2.00 max	
Phosphorous	0.045 max	
Sulphur	0.030 max	
Chromium	17.0 – 19.0	
Nickel	9.0 – 12.0	
Titanium	0.30 - 0.70	
Others	0.50 max	
Oxygen*	0.06 max	
Nitrogen*	0.12 max	
Iron	Balance	

*Applicable only for LPBF

Customization on chemical composition & particle size can be made.

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

MIM: Metal Injection Molding | BJ: Binder Jetting | LPBF: Laser Powder Bed Fusion