

INDO-MIM Limited.

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INDO-SPHERE SS 17-4PH

SS 17-4PH is martensitic precipitation hardening stainless steel that provides an outstanding combination of mechanical properties and corrosion resistance. Its chemical composition corresponds to UNS S17400/ASTM F899 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.

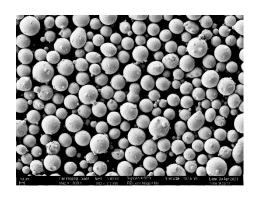
Particle Size Distribution

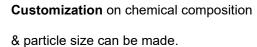
Light scattering (ASTM B822 / ISO 13320-1)						
Application	Size Range	D10%	D50%	D90%		
МІМ	<22µm	5.0 max	12.0 max	22.0 max		
ВЈ	<25µm	5.5 max	13.5 max	25.0 max		
LPBF	15 – 53μm	24.0 max	36.0 max	54.0 max		
	15 – 45µm	24.0 max	36.0 max	48.0 max		

Physical Properties

Property	g/cc	Test Method
Tap Density	4.65 min	ASTM B527
True Density	7.70 min	ASTM B923

*Applicable only for LPBF





Morphology



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

Chemical Composition (weight %)

Element	Limits	
Carbon	0.07 max	
Silicon	1.00 max	
Manganese	1.00 max	
Phosphorous	0.040 max	
Sulfur	0.030 max	
Molybdenum	0.30 max	
Chromium	15.0 – 17.50	
Copper	3.0 - 5.00	
Nickel	3.00 - 5.00	
Niobium	0.15 – 0.45	
Oxygen*	0.06 max	
Nitrogen*	0.12 max	
Iron	Balance	