

INDO-MIM PVT LTD.

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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 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.

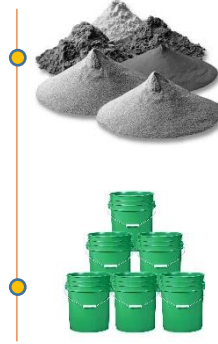
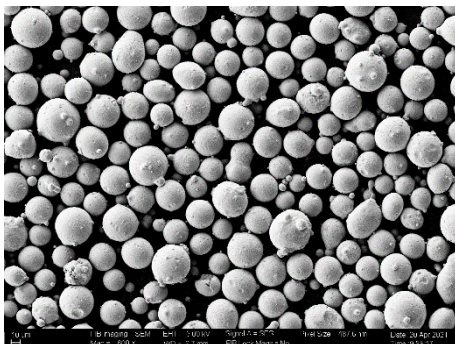
Particle Size Distribution

Light scattering (ASTM B822 / ISO 13320-1)				
Application	Size Range	D10%	D50%	D90%
MIM	<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	7.70 min	ASTM B923

Morphology



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

*Applicable only for LPBF

Customization on chemical composition & particle size can be made.

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