

**INDO-MIM PVT LTD.**

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PLM-H13

PLM-H13 is tool steel known for good abrasion resistance, toughness combined with high ductility. Its chemical composition corresponds to UNS T20813 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.

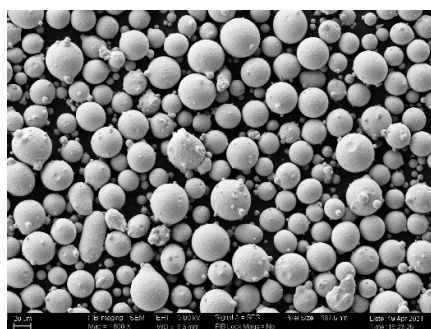
Particle Size Distribution

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	4.60 min	ASTM B527
True Density	7.65 min	ASTM B923

Morphology



Chemical Composition (weight %)

Element	Range (%)
Carbon	0.32 – 0.45
Silicon	0.80 – 1.25
Manganese	0.20 – 0.60
Phosphorous	0.030 max
Sulphur	0.030 max
Chromium	4.75 – 5.50
Molybdenum	1.10 – 1.75
Vanadium	0.80 – 1.20
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.