

INDO-MIM PVT LTD.

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Tool Steel H13

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%	
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	

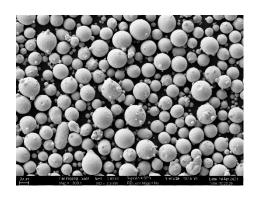
Physical Properties

Property	g/cc	Test Method
Tap Density	4.60 min	ASTM B527
True Density	7.65 min	ASTM B923

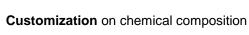
Chemical Composition (weight %)

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

Morphology







& particle size can be made.

* Applicable only for LPBF



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

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