INDO-MIM Limited.
#45(P), KIADB Industrial Area, Doddaballapur, Bengaluru - 561203
Phone: +91-080-22048600/636 | FAX: +91-080-27630532
Email: infopowders@indo-mim.com or infohq@indo-mim.com | Website: www.indo-mim.com

INDO-SPHERE Ti-6Al-4V ELI Grade-23

Ti-6Al-4V ELI Grade-23 is a high-performance titanium alloy recognized for its excellent balance of strength, fracture toughness, and biocompatibility. It conforms to the **UNS R56401 / ASTM F3001-14** chemical specifications. The powder is produced via Electrode Induction Melting Gas Atomization (EIGA) process at INDO-MIM. which ensures exceptional purity by eliminating contact with crucibles during melting. This method yields a clean melt, uniform chemistry, highly consistent particle characteristics and excellent sphericity.

Particle Size Distribution

Dynamic image analysis (ISO 13322-2)				
Application	**Size Range**	**D10%**	**D50%**	**D90%**
AM	15-45µm (Typical)	19.0	31.0	42.0
	20-63µm (Typical)	26.0	40.0	58.0
	45-106µm (Typical)	53.0	75.0	107.0

Chemical Composition (weight %)

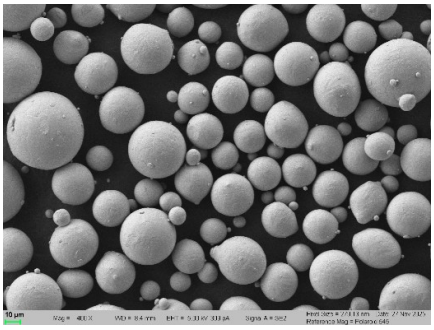
Element	Limits
Carbon	0.08 max
Vanadium	3.50 - 4.50
Aluminium	5.50 - 6.50
Yttrium	0.005 max
Iron	0.25 max
Oxygen*	0.13 max
Nitrogen*	0.05 max
Hydrogen*	0.012 max
Others each	0.10 max
Others Total	0.40 max
Titanium	Balance

*Applicable only for LPBF

Physical Properties

Property	Test Method
Tap Density	Measured according to ASTM B527
True Density	Measured according to ASTM B923

Morphology



Magnification: 400X (Fraction: 20-63µ)

Customization on particle size can be made.

Packing with 5 kg containers & custom packing is possible.

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

**Specification is only for illustrative purposes, and it varies with specific application requirements*