

## INDO-SPHERE Ti-6Al-4V Grade-5

**Ti-6Al-4V Grade-5** is a high-performance titanium alloy known for its excellent combination of high strength, corrosion resistance, and good fracture toughness. It conforms to the **UNS R56400 / ASTM F2924-14** chemical specifications. The powder is produced via the Electrode Induction Melting Gas Atomization (EIGA) process at INDO-MIM, which ensures exceptional purity by eliminating contact with crucibles during melting. This method results in a clean melt, uniform chemistry, highly consistent particle characteristics, and excellent sphericity.

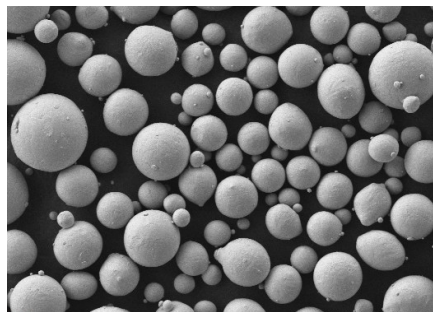
### Particle Size Distribution

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

### 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)



### Chemical Composition (weight %)

Element	Limits
Carbon	0.08 max
Vanadium	3.50 - 4.50
Aluminium	5.50 - 6.75
Yttrium	0.005 max
Iron	0.30 max
Oxygen*	0.13-0.20
Nitrogen*	0.05 max
Hydrogen*	0.015 max
Others each	0.10 max
Others Total	0.40 max
Titanium	Balance

\*Applicable only for LPBF

**Customization** on particle size can be made.

**Packing** with 5 kg containers & custom packing is possible.