

## 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 INDOMIM, 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	20-63µm (Typical)	30.0	45.0	68.0
	45-106µm (Typical)	53.0	75.0	107.0

### Physical Properties

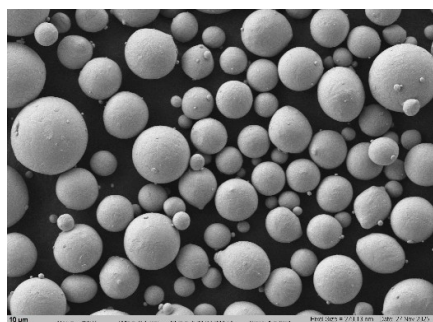
Property	Test Method
Tap Density	Measured according to ASTM B527
True Density	Measured according to ASTM B923

### Chemical Composition (weight %)

Element	Limits
Carbon	0.08 max
Vanadium	3.5 - 4.5
Aluminium	5.5 - 6.5
Yttrium	0.005 max
Iron	0.25 max
Oxygen*	0.13-0.20
Nitrogen*	0.05 max
Hydrogen*	0.012 max
Others each	0.1 max
Others Total	0.4 max
Titanium	Balance

\*Applicable only for LPBF

### Morphology



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



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

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