

# ANCOR TI ALLOYS

## ANCOR Ti-6Al-4V & CP Ti

Are gas-atomized spherical titanium powder for applications in additive manufacturing metal injection molding, and hot isostatic pressing. Ti-6Al-4V alloy and Commercially Pure (CP) grades exhibit a high strength to weight ratio with excellent corrosion resistance and are biocompatible.

This range of properties makes ANCOR Ti a perfect candidate to manufacture parts for aerospace, medical, chemical and marine applications. Produced in a range of particle sizes and purities including those that meet ASTM specifications.

### CONTACT INFORMATION

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- > Spherical Powder for Additive Manufacturing
- > Particle Size Engineered for Laser Powder Bed Fusion (LPBF), Electron Beam Melting (EBM)
- > Rigorous Quality Testing to AS9100 "D"
- > Powder Size Available for Metal Injection Molding and DED, "Direct energy deposition"

### Powder Characteristics

Laser Particle Size Analysis [um]				Powder Properties		Application
Size Type	D10	D50	D90	Flow	AD	
15-45	15	30	45	--	>2.0 g/cm <sup>3</sup>	LPBF
20-63	30	43	58	<35 s/50g	>2.0 g/cm <sup>3</sup>	LPBF
50-100	58	76	102	<35 s/50g	>2.0 g/cm <sup>3</sup>	DED

### ANCOR Ti 6AL4V

Chemical Composition Nominal (wt%)				Maximum (wt)				
Grade	Titanium	Aluminum	Vanadium	Iron	Oxygen	Carbon	Hydrogen	Nitrogen
5	Bal.	6.3	4.2	0.40	0.20	0.08	0.015	0.05
23	Bal.	6.3	4.2	0.25	0.13	0.08	0.015	0.03

### ANCOR TI Commercially Pure

Chemical Composition Nominal (wt%)				Maximum (wt%)				
Grade	Titanium	Aluminum	Vanadium	Iron	Oxygen	Carbon	Hydrogen	Nitrogen
1	Bal.	--	--	0.20	0.18	0.18	0.015	0.03
2	Bal.	--	--	0.30	0.08	0.25	0.015	0.03

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