

Typical Analysis and Properties

- Spherical Titanium Powder for Additive Manufacturing
- Particle Size Engineered for Selective Laser Melting (SLM) and Electron Beam Melting (EBM)
- Rigorous Quality Testing

AncorTi 6-2-4-2- Ti-6Al-2Sn-4Zr-2Mo is an elevated temperature alloy with an excellent combination of tensile strength, creep strength, toughness and high temperature service. A near alpha titanium alloy, It has applications in the aerospace industry (high-temperature parts) and the automotive industry in automotive valves. The tin and zirconium additions are solid solution strengtheners and the alloy can be heat treated by solution treatment and aging to allow for a wide range of mechanical properties. This alloy is recommended for service conditions that require high strength and toughness, excellent creep resistance, and oxidation resistance up to about 565 °C.

Typical Analysis

Aluminum	Tin	Iron	Molybdenum	Zirconium	Oxygen	Carbon	Hydrogen	Nitrogen
6.5% Max	2.2% Max	0.25% Max	2.2% Max	4.4% Max	0.15% Max	0.05% Max	0.015% Max	0.04% Max

Laser Particle size Analysis					
Micrometers					
Grade	D10	D50	D90	AD	Flow
A	7-17	29-34	48-58	2.0 Min - 2.6 Max g/cm ³	20 Min - 35 Max Sec/50g
B	27-37	41-46	68-78		
C	40-50	55-60	100-125		

