

AncorTi 5-5-5-3

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 to AS9100 “D” Standard

AncorTi 5-5-5-3- Ti-5Al-5Mo-5V-3Cr is a high-strength near- β titanium alloy used for the production of high strength parts. Typically, the alloy is forged or cast and is difficult to machine, making it a candidate material for additive manufacturing. The ultimate tensile and yield strength are approximately 15-20% higher than those of Ti-6Al-4V. It also has higher hardenability and therefore alloys for a more uniform hardening, especially in larger parts. Ti-5Al-5Mo-5V-3Cr is a heat treatable alloy that is designed to give higher toughness while still retaining excellent strength.

Typical Analysis

Aluminum	Chromium	Silicon	Iron	Molybdenum	Zirconium	Oxygen	Carbon	Hydrogen	Nitrogen
5.7% Max	3.5% Max	0.15% Max	0.50% Max	5.5% Max	0.3% Max	0.2% Max	0.1% Max	0.015% Max	0.05% 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		

