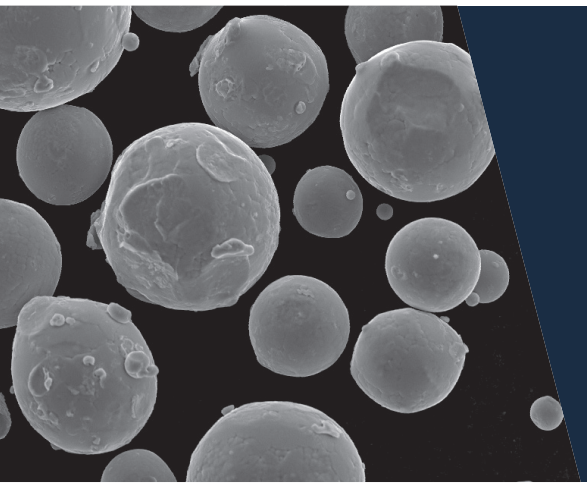
ANCOR TI 5553



5Al-5Mo-5V-3Cr

Is a high-strength near-beta 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 yeild strength are approximately 15-20% higher than those of Ti-6Al-4V. It also has a higher hardemability 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 retainning excellent strength.

CONTACT INFORMATION
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- Spherical Powder for Additive Manufacturing
- Particle Size Engineered for Binder Jetting, Laser Powder Bed Fusion, Melting and Electron Beam Melting
- Rigorous Quality Testing of each powder lot
- Powder Size Available for Metal Injection Molding and DED, “Direct energy deposition”

Typical Powder Characteristics

Laser Particle Size Analysis [um]				Powder Properties		Application
Size Type	D_{10}	D_{50}	D_{90}	Flow	AD	
15-45	15	30	45	--	>2.0 g/cm³	LPBF
20-63	30	43	58	<35 s/50g	>2.0 g/cm³	LPBF
50-100	58	76	102	<35 s/50g	>2.0 g/cm³	DED

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Chemical Composition Nominal (wt%)						Maximum (wt%)			
Titanium	Aluminum	Molybdenum	Vanadium	Chromium	Iron	Oxygen	Carbon	Hydrogen	Nitrogen
Bal.	5.7	5.5	4.8	3.5	0.5	0.20	0.05	0.02	0.05