Titanium Based Powders

Process			Alloy	Chemical Composition (wt%)						UNS	ASTM	AMS	DIN	Similar Grades
Selective Laser Melting	Electron Beam Melting	Laser Metal Deposition		Element	Min	Max	Element	Min	Max					
✓	✓	✓	**Ti PL ISO 5832**	C		0.08	O		0.18	R50250	B348gr			ISO 5832-2
				Fe		0.20	Res Each		0.1					
				H		0.015	Res Each		0.4					
				N		0.03	Ti	Bal	Bal					
✓	✓	✓	**Ti6242**	Al	5.50	6.50	O		0.20			4919		
				C		0.05	Si	0.06	0.10					
				Fe		0.10	Sn	1.80	2.20					
				H		0.0125	Ti	Bal	Bal					
				Mo	1.80	2.20	Yt		0.005					
				N		0.05	Zr	3.60	4.40					
✓	✓	✓	**Ti64 (AMS 4998)**	Al	5.50	6.75	O	0.13	0.18			4998		
				C		0.10	Res Each		0.10					
				Fe		0.30	Res Total		0.20					
				H		0.012	Ti	Bal	Bal					
				N		0.04	V	3.50	4.50					
✓	✓	✓	**Ti64 Gd5**	Al	5.5	6.75	O		0.20	R56407	B348 gr 5 F2924			
				C		0.08	Res Each		0.1					
				Fe		0.4	Res Total		0.4					
				H		0.015	Ti	Bal	Bal					
				N		0.05	V	3.50	4.5					
✓	✓	✓	**Ti64 Gd23 ISO 5832-3**	Al	5.5	6.5	0		0.13	R56407	B348 gr 23 F136/ F3001	4956		ISO 5832-3
				C		0.08	Res Each		0.1					
				Fe		0.25	Res Total		0.4					
				H		0.0125	Ti	Bal	Bal					
				N		0.03	V	3.5	4.5					