

## Aluminium 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					
✓		✓	AL 6061	Al	Bal	Bal	Mg	0.8	1.20	A96061			3.3214	6061
				Cr		0.35	Si	0.4	0.8					
				Cu	0.15	0.40	Ti		0.15					
				Fe		0.70	Zn		0.25					
				Mn		0.15								
✓		✓	AL 7050	Al	Bal	Bal	Mn		0.10	A97050			3.4144	7050
				Cr		0.04	Si		0.12					
				Cu	2.0	2.6	Ti		0.06					
				Fe		0.15	Zn	5.7	6.7					
				Mn	1.9	2.6	Zr	0.08	0.15					
✓		✓	AL 7075	Al	Bal	Bal	Mn		0.30	A97075			3.4364	7075
				Cr	0.18	0.25	Si		0.40					
				Cu	1.2	2.0	Ti		0.2					
				Fe		0.50	Zn	5.1	6.1					
				Mg	2.1	2.9								
✓		✓	AlSi7Mg	Al	Bal	Bal	Mn	0.50	0.6					
				Cu		0.04	Si	6.7	7.3					
				Fe		0.14	Ti	0.08	0.12					
				Mg	0.25	0.45	Zn		0.09					
✓		✓	AlSi10Mg	Al	Bal	Bal	Pb		0.02	A13600 / A03600			3.2381	
				Cu		0.05	Si	9.0	11.0					
				Fe		0.25	Ti		0.02					
				Mg	0.25	0.45	Zn		0.15					
				Mn		0.10			0.1					
				Ni		0.05								
✓		✓	AlSi12	Al	Bal	Bal	Pb		0.02					
				Cu		0.30	Si	11.0	13.0					
				Fe		0.25	Sn		0.02					
				Mg		0.1	Zn		0.2					
				Mn		0.1								