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3D printed metal material properties

Material	Grade	Physical characteristics				Finished product characteristics		
		Particle size	Form	Mobility	Loose density	Densification	Tensile strength	Yield strength
Stainless steel	316L	15~53μm	Spherical	40S	3.9g/cm³	≥99%	≥560Mpa	≥480Mpa
Die steel	1.2709	15~53μm	Spherical	40S	4.3g/cm³	≥99%	≥1090Mpa	≥1000Mpa
Titanium alloy	TC4	15~53μm	Spherical	45S	2.5g/cm³	≥99%	≥600Mpa	≥540Mpa
Aluminium alloy	AlSi10Mg	15~53μm	Spherical	150S	1.45g/cm³	≥99%	≥330Mpa	≥245Mpa
Nickel base superalloy	GH4169	15~53μm	Spherical	45S	4.4g/cm³	≥99%	≥980Mpa	≥700Mpa