

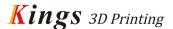


Aluminum alloy is the most widely used class of non-ferrous metal structure materials in the industry. The models printed has low density but relatively high strength which is close to or beyond high-quality steel and good plastic.









Advantage

- > Build parts offers excellent mechanical properties, such as hardness and tensile strength
- > Outstanding corrosion resistance
- > Good thermal and electrical conductivity
- > High dynamic toughness

I Ideal Applications

- > Functional parts in automotive industries
- > Light weight structural geometries for aerospace
- > Thermal applications such as heat exchangers
- > Robotics & engineering

I Powder composition / percent by mass

Si	Fe	Cu	Mn	Mg	Ni	Zn	Pb	Sn	Ti	Al
9.0-11.0	0.55	0.05	0.45	0.2-0.45	0.05	0.1	0.05	0.05	0.15	Balance

I Technical Datasheet

General Properties	Density ISO3369	≥2.65 g/cm³		
Mechanical Properties	Tensile Strength ISO6892-1	≥430 MPa		
(As built)	Yield Strength ISO6892-1	≥250 MPa		
	Elongation after Fracture ISO6892-1	≥5 %		
	Vickers hardness ISO6507-1	≥120 HV5/15		
	Surface roughness Ra Z	6-10µm		
Mechanical Properties	Tensile Strength ISO6892-1	≥300 MPa		
(Heat treated)	Yield Strength ISO6892-1	≥200 MPa		
	Elongation after Fracture ISO6892-1	≥10 %		
	Vickers hardness ISO6507-1	≥70 HV5/15		
	HRB	70HRB		

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