

Metal 3D Printing Leader

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# AlSi7Mg

## Aluminum-based alloy

Aluminum alloy AlSi7Mg can be used for the production of lightweight and heat-treatable components. It is widely applied in the field of aerospace and automotive due to its good mechanical property.



## Advantage

- > Good powder morphology
- > In accordance with GB, ASTM standard chemical composition
- > Uniform composition, high purity

## Ideal Applications

- > Aerospace
- > Aviation
- > Automobile
- > Industrial parts

## Powder composition / percent by mass

Alloy	Ai	Si	Mg	Ti	Fe	Mn	Zn	Cu
AlSi7Mg	Balance	7	0.4-0.7	0.04-0.2	0-0.1	0-0.1	0-0.1	0-0.2

## Technical Datasheet

Flowability	≤80s
Apparent density	≥1.3g/cm <sup>3</sup>
Sphericity	≥0.8
Oxygen Content	≤500ppm

Alloy	AlSi7Mg
Tensile Strength	235-270Mpa
Yield Strength	150-170Mpa
% Elongation	8-14

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