

Metal 3D Printing Leader



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 ³
Sphericity	≥0.8
Oxygen Content	≤500ppm

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

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