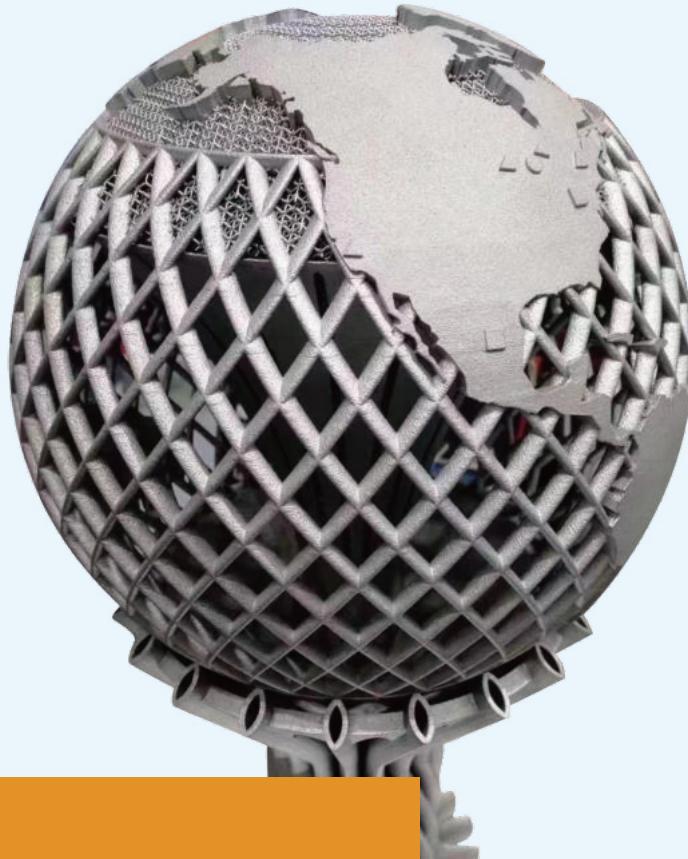
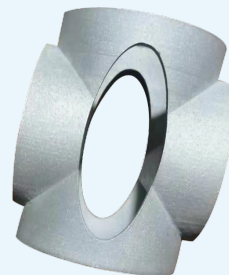
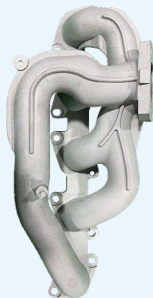




Aluminum Alloy

Technical Data



Material Overview

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

- > Low density but relatively high strength
- > Excellent corrosion resistance
- > Good mechanical properties

Ideal Applications

- > Aerospace
- > Automotive
- > Medical
- > Machinery manufacturing
- > Mould manufacturing

Post Process

- > Polish
- > Sandblast
- > Electroplate

Technical Datasheet

General physical properties (polymer material) / part density (g/cm³, metal material)

Part density

2.65 g/cm³

Thermal properties (polymer materials) / printed state properties (XY direction, metal materials)

Tensile strength

≥430 MPa

Yield strength

≥250 MPa

Elongation after break

≥5%

Vickers hardness (HV5/15)

≥120

Mechanical properties (polymer materials) / heat-treated properties (XY direction, metal materials)

Tensile strength

≥300 MPa

Yield strength

≥200 MPa

Elongation after break

≥10%

Vickers hardness(HV5/15)

≥70

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