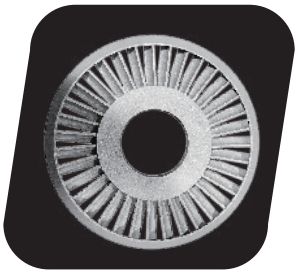
TECHNICAL DATA

# Aluminum Alloy

Product Demonstration

JS ADDITIVE



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# Aluminum Alloy

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.

## Advantages

- 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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