

# Ti6Al4V

Titanium-based alloy ideal for high-performance applications in aerospace, automotive and medical industries

## Key Features:

- > Outstanding mechanical properties and corrosion resistance
- > High specific strength, toughness and ductility
- > Good strength-to-weight ratio
- > Good biocompatibility

## [ Technical Data ]

### General Properties

<b>Density</b> <small>ISO3369</small>	≥4.40 g/cm <sup>3</sup>
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### Mechanical Properties (As built)

<b>Tensile Strength</b> <small>ISO6892-1</small>	≥1100 MPa
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<b>Yield Strength</b> <small>ISO6892-1</small>	≥950 MPa
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<b>Elongation after Fracture</b> <small>ISO6892-1</small>	≥8 %
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<b>Vickers hardness</b> <small>ISO6507-1</small>	≥310 HV5/15
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### Mechanical Properties <sup>1</sup> (Heat treated)

<b>Tensile Strength</b> <small>ISO6892-1</small>	≥960 MPa
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<b>Yield Strength</b> <small>ISO6892-1</small>	≥850 MPa
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<b>Elongation after Fracture</b> <small>ISO6892-1</small>	≥10 %
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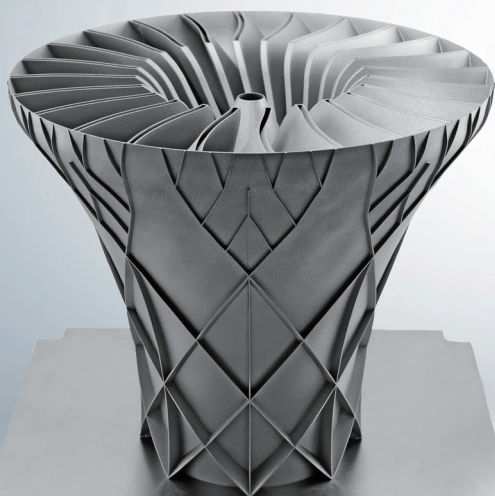
<b>Vickers hardness</b> <small>ISO6507-1</small>	≥300 HV5/15
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<sup>1</sup> For more information on heat treatment process, please contact us directly. Farsoon systems are open material platform. For special materials such as tungsten, tantalum and pure copper, please contact us with your inquiries or requirements.

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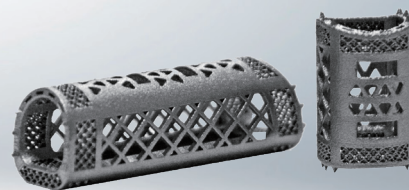
## Example Applications:

- > High-performance parts for aerospace, automotive, medical and energy industries
- > Functional industrial parts with light weight structural geometries
- > Medical tools & implants



Turbine Cooling Testbed  
 System: FS421M-2  
 Size: 365×365×320mm

Porous Spine Fusion Cage  
 System: FS121M  
 Partner: Huaxiang Group



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