

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

Density ISO3369	≥4.40 g/cm ³
------------------------	-------------------------

Mechanical Properties (As built)

Tensile Strength ISO6892-1	≥1100 MPa
-----------------------------------	-----------

Yield Strength ISO6892-1	≥950 MPa
---------------------------------	----------

Elongation after Fracture ISO6892-1	≥8 %
--	------

Vickers hardness ISO6507-1	≥310 HV5/15
-----------------------------------	-------------

Mechanical Properties ¹ (Heat treated)

Tensile Strength ISO6892-1	≥960 MPa
-----------------------------------	----------

Yield Strength ISO6892-1	≥850 MPa
---------------------------------	----------

Elongation after Fracture ISO6892-1	≥10 %
--	-------

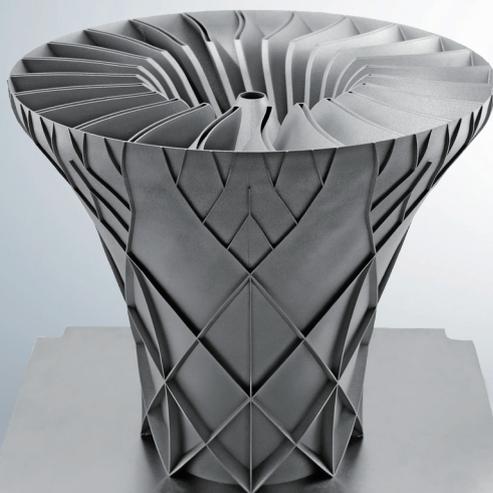
Vickers hardness ISO6507-1	≥300 HV5/15
-----------------------------------	-------------

¹ 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.

Disclaimer: Many factors may affect the performance characteristics of products. We recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. Farsoon makes no warranties of any type, express or implied, including but not limited to, the warranties of merchantability or fitness for a particular use. This also applies regarding the consideration of possible intellectual property rights as well as laws and regulations. Farsoon reserves the right to change the technical data without notice. Farsoon®, Buildstar®, Makestar® are registered trademarks of Farsoon Technologies. Last Change: 2022-01-29

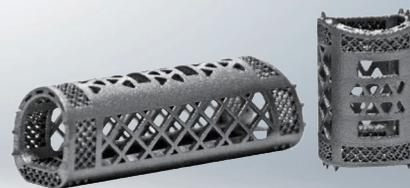
Example Applications:

- > 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



www.farsoon.com