



## Ti6AI4V

Ti6Al4V is a titanium alloy widely known and used in the additive manufacturing industry. It combines high strength, hardness, and ductility with high corrosion resistance. It also means a 45% weight reduction compared to conventional steel.

The most common applications are within aerospace, but Ti6Al4V is also used in marine, automobile, energy, chemical and biomedical industries.



Element	[Weight %]	
Ti	Balance	
Al	6	
V	4	
С	0.05	
N	0.01	
0	0.26	

Related standards and denominations: ISO22068 (2014)

## PHYSICAL PROPERTIES - TYPICAL VALUES

Property	As sintered	As HIP*
Ultimate tensile strength [MPa]	890	1050
Yield strength [MPa]	790	940
Elongation [%]	8	10
Hardness [HRC]	25	55
Relative density [%]	95	Full

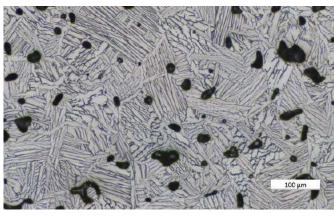
<sup>\*</sup> Hot Isostatic Pressing



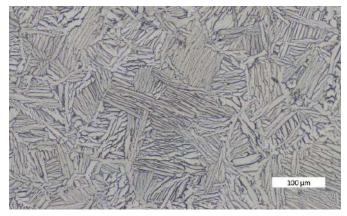


## **FEATURES**

- High strength and hardness
- Excellent corrosion resistance
- 45% lighter than conventional steel
- Biocompatible



As sintered



HIP: 820 °C; 2000 bar; 2 h

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