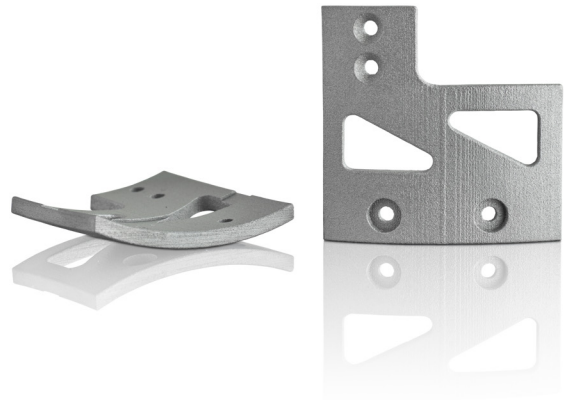


# Ti-6Al-4V

## TITANIUM ALLOY

Ti-6Al-4V is a titanium alloy that combines high strength, hardness, and ductility with high corrosion resistance. It nearly matches steel's strength while being 45% lighter, yielding one of the highest strength to weight ratios in manufacturing materials.

Aerospace applications are the most common, but Ti-6Al-4V is also used in marine, automobile, energy, chemical and biomedical industries.



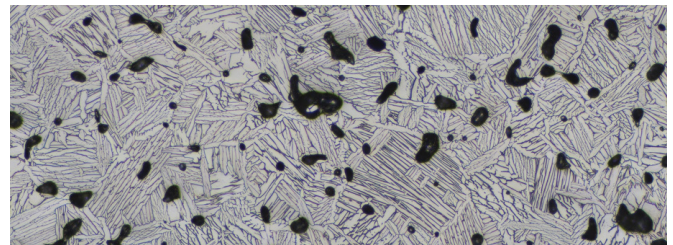
Composition	Weight%
Titanium	Balance
Aluminum	6
Vanadium	4
Carbon	0.05
Nitrogen	0.01
Oxygen	0.26

Features & Benefits
High strength and hardness
Excellent corrosion resistance
Best-in-class strength to weight ratio
Biocompatible

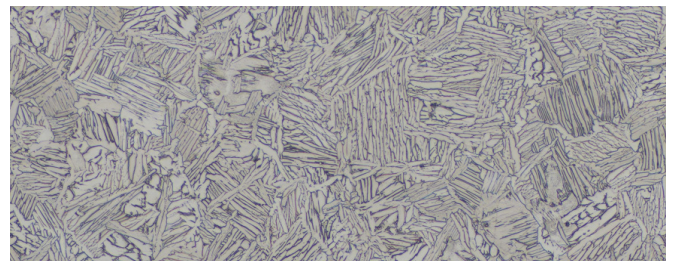
\*Related standards and denominations: ISO22068 (2014)

Physical Properties	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	>99.9

\*Hot Isostatic Pressing



As sintered



As HIP

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