



Titanium TiAl6V4

Properties

Out Titanium alloy gives you excellent mechanical properties and has a high resistance to corrosion. It has a low specific gravity and it bio compatible. Heat treatment is available for internal stress relief.

Application

- Demanding industrial applications
- Aerospace
- Motor sport and automotive
- Medical devices
- Marine engineering.

Chemical Composition:

Ti	Al	V	Fe	C
Base	5.5 - 6.75%	3.5 - 4.5%	Max 0.03%	Max 0.08%

Mechanical Properties:

Material Property	Unit	As Built	Heat Treated
Tensile Strength	MPa	1215 ± 40	995 ± 20
Yield Strength (Rp 0.2%)	MPa	1065 ± 40	930 ± 20
Elongation at Break	%	10 ± 3	14 ± 1
E-Modulus	GPa	110 ± 5	115 ± 10
Charpy-notched Flexural Impact	J	45 ± 10	11 ± 4
Hardness (DIN EN ISO 6507-1)	HVS	320	320
Maximum Operating Temp	°C	350	350

Jan 2013

This data sheet contains approximate values. These values are influenced by part geometry, additives, and environmental influences. They were developed based on current experiences and knowledge. Therefore, the above mentioned properties cannot be claimed legally binding nor can a definite purpose be derived.