

Ti64 Titanium

High Performance, Very Stiff and Cost-effective

A high temperature, high performance, high strength titanium alloy with quick build time.



Benefits

- Excellent mechanical properties
- Corrosion resistant
- Cost-effective
- Biocompatible

Applications

- Medical applications
- Low-volume production
- Aerospace and automotive applications
- Jewellery



Physical Properties

Colour	Grey
Type	Titanium

Mechanical Properties

	As Built ¹	Heat Treated ²
Ultimate tensile strength, Rm	1290 ± 80MPa	1070 ± 80 MPa
Yield Strength, R _{p0.2}	1150 ± 80MPa	1010 ± 80 MPa
Elongation at break, A	8 ± 4 %	14 ± 4%
Density (g/cm ³)	4.47	

Hardness

	As Built	Heat Treated
Vickers Hardness HV ³	Typ. 320 ± 15 HV5	N/A

¹ Tensile testing according to ISO 6892 -1:2009 (B) Annex D, proportional test pieces, diameter of the neck area 5mm (0.2 inch), original gauge length 25mm (1 inch).

² Specimens were heat treated at 800°C for 2 hours in argon inert atmosphere

³ Hardness measurement according to standard EN ISO 6507-1:2005 with load 5kgf (HV5)

Material composition

Element	Indicative Value (Weight in %)
Al	5.50 – 6.50
V	3.50 – 4.50
O	0.150
N	0.040
C	0.080
H	0.012
Fe	0.250
Y	0.005
Other elements each	0.10
Other elements total	0.40
Ti	Balance

Call: 028 9070 6940

Email: sales@laserproto.com

Web: www.laserproto.com

[Click here](#) to request a quote

Please be advised that all information provided in this document is representative of typical properties and as advised by the material manufacturer. Performance characteristics of these products may vary according to product application, operating conditions or with end use.

Laser Prototypes Ltd makes no warranties of any type, express or implied, with respect to any of the goods or services supplied. This includes but is not limited to any warranty of fitness for a particular purpose or of properties or of suitability for a specific application. Data are subject to change without notice as part of our continuous development and improvement processes.