

# Titanium (Ti64) - Specifications

## Description

This material has excellent mechanical properties and corrosion resistance combined with low specific weight. This material is widely used in a variety of medical, aerospace and other engineering applications.

## Composition\*

Element	Typical Values
Al	5.5 – 6.5 %
V	3.5 – 4.5 %
O	< 2000 ppm
N	< 500 ppm
C	< 800 ppm
H	< 120 ppm
Fe	< 2500 ppm
Ti	Balance

## Mechanical Properties\*

Ultimate tensile strength	166 ± 9 ksi
Yield strength	150 ± 10 ksi
Elongation at break	11 ± 2 %
Young's modulus	16 ± 1 msi
Hardness	41 - 44 HRC

\* The properties may vary according to application and operation conditions. This information is for reference only. Specifications are subject to change without notice.

# Titanium (Ti64)



1949 Palomar Oaks Way, Suite 150, Carlsbad, CA 92011  
[contactus@arrk.com](mailto:contactus@arrk.com) (800) 735-2775