

TITANIUM FASTENING SOLUTIONS

A high-strength, lightweight material for fasteners

Titanium offers outstanding mechanical performance, low density, low magnetic permeability and excellent chemical stability, making it the ideal alternative to stainless steel for high-strength and corrosive working conditions.



Materials

Commercially Pure
Grade 2
Grade 4

Alpha-Beta Alloy
Grade 5 Ti-6Al-4V

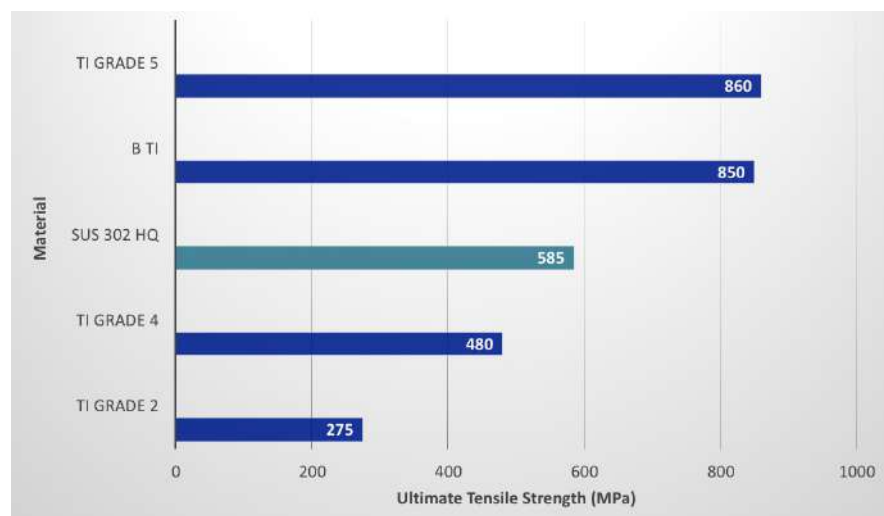
Beta Alloy
Ti-15V-3Cr-3Al-3Sn (15333)
Ti-22V-4Al (422)

Features & Benefits

- Corrosion resistant
- Non-magnetic
- Biocompatible

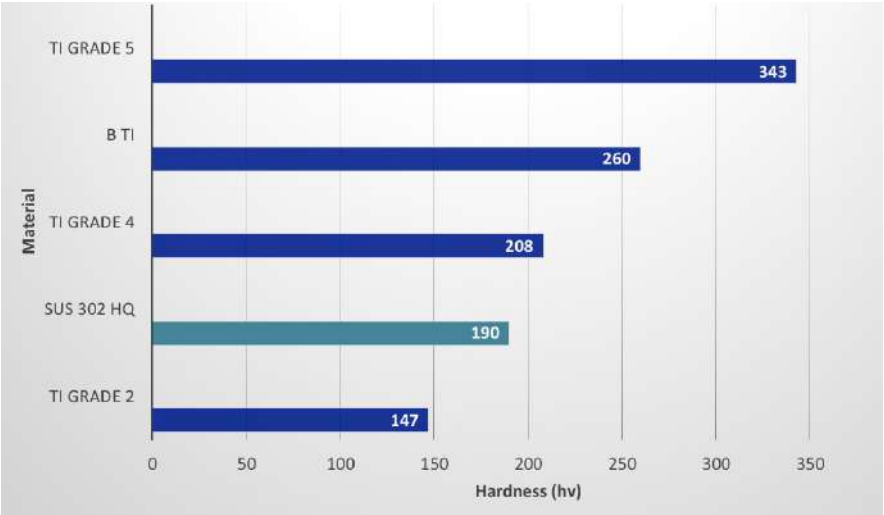
Tensile Strength

(Heading quality SUS 302 used as benchmark)



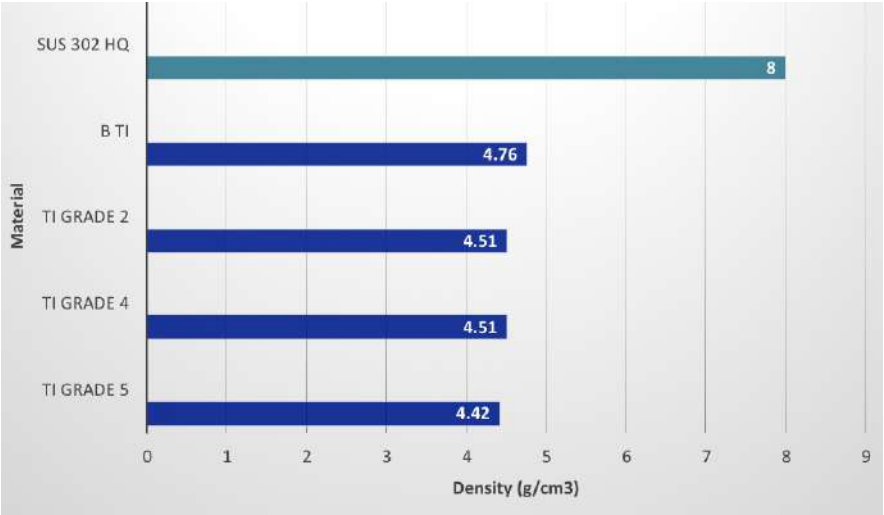
Hardness

(Heading quality SUS 302 used as benchmark)



Density

(Heading quality SUS 302 used as benchmark)



Applications

Screws



Inserts



Machined Parts



Titanium Screws

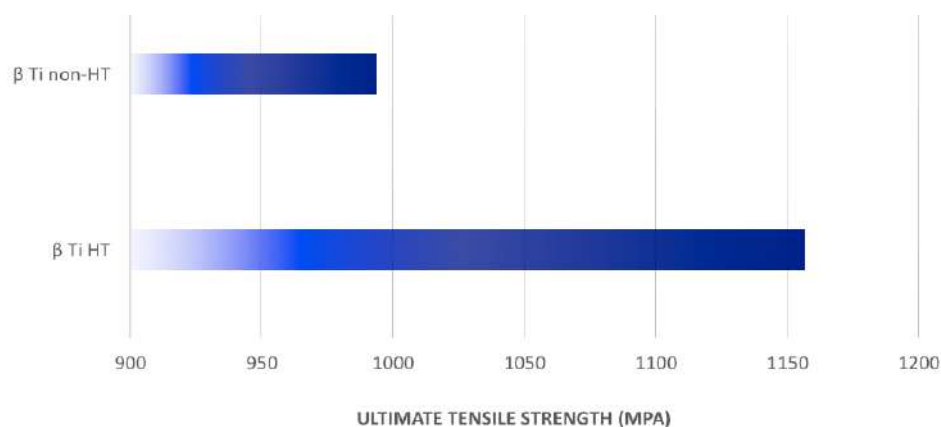
Head styles : Available in any head style

Recess styles : TORX® & TORX® PLUS

Size range : M0.8 – M5.0. Other sizes are available upon request

Manufacturing Capabilities

Unisteel has developed the capability to produce screws via cold forging of titanium wire, which reduces production cost significantly compared to machining. Furthermore, post-production treatments such as heat treatment and anodization can be carried out to improve the screws' mechanical properties and appearance respectively.



Titanium alloy screws can be anodised to obtain a wide range of colours:

