

## The most important alloys of titanium

Description	Tensile Strength min. [N/mm <sup>2</sup> ]	Yield Strength 0.2% min. [N/mm <sup>2</sup> ]	Properties	Applications
Titanium CP Grade 1	240	170	Good formability when cold, ability for deep drawing	Heat exchanger, welded tubes
Titanium CP Grade 2	345	275	Medium strength level	Mechanical engineering
Titanium CP Grade 4	550	483	Highest strength level for pure titanium, challenging cold processing	Dental implants
Ti6Al4V	895	828	High strength, good forgeability	Aerospace industry, mechanical engineering
Ti6Al4V ELI	860	795	Low oxygen content, good biocompatibility	Medical industry, low temperature applications
Ti6Al7Nb	900	800	High strength, good biocompatibility	Medical industry
BetaC™	793 (ST) 1172 (STA)	759 (ST) 1103 (STA)	Low elastic modulus, heat treatable	Spectacle frames, springs
Ti 0.15Pd	345	275	Higher corrosion resistance	Petrochemical industry
Ti3Al2.5V	620	483	Better formability than Ti6Al4V with lower strength	Seamless tubes for aerospace industry