

Approximate Comparison of Titanium Alloy Properties with Other Industrial Materials

Properties	Criteria	Grade 2 Titanium	316 St/St	Carbon steel	Aluminium	Gun Metal
Mass	Stiffness/Weight ratio (Ti-Gal-4V)	1.3	0.1			
	Density (Gr/cm ₃)	4.5	8	7.8	2.8	8.4
Thermal	Melting Temperature (C0)	1665	1475	1600	600	1050
Mechanical	Ultimate strength M pa	344	500	510	250	300
	Yield strength M pa	320	210	215	150	200
	Elongation (%)	20	12	15	4	20
	Hardness (Rockwell B)	80	90	100	50	95
Resistance to corrosion (sea water)	A < 0.01 M g/an	A	B	C	C	B

For reference purposes only. Please note, Dean Group International do not guarantee the above information.