

TITANIUM GR.2

TITANIUM ALLOY

CORROSION RESISTING ALLOYS WITH LOW DENSITY

Titanium Alloy Grade 2 is "unalloyed" titanium offering an excellent balance of strength and ductility. The material has good toughness and is readily weldable. This material is very corrosion resistant in highly oxidizing and mildly reducing environments. The material is castable and is often utilized in cast valves and fittings. In plate form, the alloy is also used explosively bonded to make clad plate. The alloy is available as castings, wire, welded tube, pipe, plate, sheet, strip, forgings, bar, and billet.

Chemical Properties

C	Fe	O	H	N	Ti
0.08 Max	0.3 Max	0.25Max	0.015max	0.03 Max	Balance

Minimum Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction
Min 0.2% Mpa	Min Mpa	Min %	Min %
275	345	20	30

Typical Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction
Min 0.2% Mpa	Min Mpa	Min %	Min %
352	483	28	--

Specification:

AMS 4902	Strip, Sheet, and Plate
AMS 4941	Welded Tubing
AMS 4942	Seamless Tubing
AMS 4951	Wire, Welding
ASME SB265	Sheet, Strip, and Plate
ASME SB348	Bar and Billet
ASME SB367	Castings
ASME SB381	Forgings
ASTM B265	Strip, Sheet, and Plate
ASTM B338	Tube, Seamless and Welded
ASTM B348	Bar and Billet
ASTM B363	Fittings
ASTM B367	Castings
ASTM B381	Forgings
ASTM B861	Seamless Pipe
ASTM B862	Welded Pipe
ASTM B863	Wire
ASTM B831	Forgings
ASTM F67 (Grade 2)	Unalloyed Titanium for Surgical Implants
AWS A5.16 ERTi-2	Weld Wire
ISO 5832-2 (Grade 2)	Unalloyed Titanium for Surgical Implants

Product Form:

Equivalent Designation

UNS R50400
W.Nr. 3.7035
Aerospace German WL 3.7034
Italian(UNI 10221) Ti2 - Type 2

CUSTOMER ASSISTANCE : customer@TorqBolt.com