

TITANIUM GR.7

TITANIUM ALLOY

CORROSION RESISTING ALLOYS WITH LOW DENSITY

Titanium Alloy Grade 7 with 0.1% palladium is similar to Grade 2, but with improved resistance to general and localized crevice corrosion in a wide range of reducing acid environments, including chlorides, and where low pH and high temperatures above 180oF (83oC) to 500oF (260oC) are prevalent. The alloy is available as castings, wire, welded tube, pipe, plate, sheet, strip, forgings, bar, and billet.

Chemical Properties

C	Fe	O	H	N	Pd	Ti
0.08 Max	0.30 Max	0.25 Max	0.015 Max	0.03Max	0.12-0.25	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	438	28	--

Specification:

ASME SB-265
 ASME SB-337
 ASME SB-338
 ASME SB-348
 ASTM B265 (Grade 7)
 ASTM B348 (Grade 7)
 ASTM B367 (Grade 7)
 ASTM B861*
 ASTM B862*
 AWS A5.16 (ERTi-7)

Product Form:

Sheet, Strip, and Plate
 Pipe, Seamless and Welded
 Tube, Seamless and Welded
 Bar and Billet
 Sheet, Strip, and Plate
 Bar and Billet
 Castings
 Seamless Pipe
 Welded Pipe
 Weld Wire

Equivalent Designation

UNS R52400
 Italian(UNI 10221) Ti2Pd-Type 7
 Alloy 4200

CUSTOMER ASSISTANCE : customer@TorqBolt.com